**ORDER NO. ITD0110012C3** 

# Service Manual

**Projection Television** 

TX-43P250 / TX-51P250 / TC-43P250 / TC-51P250 EURO-7VPChassis



**SPECIFICATIONS** 

**Specifications** 

#### **Power Source:**

TX-43/51P250, TC-51P250H: AC 220V-240V, 50/60Hz

TX-43/51P250X: AC 110V-240V, 50/60Hz

**Power Consumption:** 

TX-43/51P250, TC-51P250H: 228W

TX-43/51P250X: 238W 3.0W (Stand-by condition)

**Aerial Impedance:** 

75  $\Omega$  unbalanced, Coaxial type

**Tuning System:** 

21 Systems

**Frequency Synthesizer** 

**Auto Search** 

100(Position)/125(Direct)

#### **Receiving Channels:**

•		
VHF Band	2-12	(PAL/ SECAM - B, K1)
	0-12	(PAL-B AUST.)
	1-9	(PAL-B N.Z.)
	1-12	(PAL/SECAM-D)
	1-12	(NTSC-M JAPAN)
	2-13	(NTSC-M U.S.A.)
UHF Band	21-69	(PAL-G, H, I)
	21-69	(SECAM-G, K, K1)
	28-69	(PAL-B AUST.)
	13-57	(PAL-D, K)
	13-62	(NTSC-M Japan)
	14-69	(NTSC-M U.S.A.)
CATV	S1-S20	(OSCAR)
	S21-S41	(HYPER)
	1-125	(U.S.A. CATV)
	5A, 9A	(AUST.)
	Z1-Z37	(CHINA)
	C13-C49	(JAPAN)

### Intermediate Frequency:

Video 38.0 MHz

Sound 31.5 MHz (D, K)/32.0 MHz (I)

32.5 MHz (B, G)/33.5 MHz (M)

Colour 33.57 MHz (PAL)/33.6 MHz (SECAM)

33.75 MHz (SECAM)/34.42 MHz (NTSC)

### Receiving Stereo sound system:

NICAM B/G, NICAM I, NICAM D, A2 (German)

#### Screen Size:

	Type 51	Type 43
Diagonal:	296 mm	1092 mm
Height:	780 mm	655 mm
Width:	1037 mm	874 mm

**Projection Tube:** 

Type 51 Type 43

TVVAB10GAV (B-ASSY) TVVAB10GLV (B-ASSY)
TVVAG10GAV (G-ASSY) TVVAG10GLV (G-ASSY)

TVVAR10GAV (R-ASSY)

**TVVAR10GLV (R-ASSY)** 

90° deflection

High Voltage:

31.5 ± 1.0 kV at zero beam current

**Audio Output:** 

24 W [2-way, 4-speakers; 12 W+12 W] (10% THD)

Video/Audio Terminals:

AV1, 2, 3, 4 IN Video

S-Video Y: 1.0 Vp-p 75 Ω

C: 0.3Vp-p 75 Ω

1 Vp-p 75 Ω

Audio Approx. 0.4V 47k Ω

Monitor OUT Video 1Vp-p 75 Ω

> Audio Approx. 0.4V 1k Ω

**Dimensions:** 

Type 51 Type 43

1260 mm Height: 1385 mm Width: 1095 mm 932 mm 500 mm 500 mm Depth:

Mass:

Type 51 Type 43 58 kg

54 kg

**Accessories Supplied:** 

Remote Controller x 1

"R6" Battery x 2

75  $\Omega$  coaxial aerial plug

Design and Specifications are subject to change without notice. Mass and dimensions shown are approximate.

# **Panasonic**

# 1. Safety Precautions

#### 1.1. General Guide Lines

- 1. It is advisable to insert an isolation transformer in the AC supply before servicing a hot chassis.
- 2. When servicing, observe the original lead dress, especially the lead dress in the high voltage circuits.

- If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
- 3. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers, shields, and isolation R-C combinations, are properly installed.
- 4. When the receiver is not to be used for a long period of time, unplug the power cord from the AC outlet.
- 5. Potential, as high as 31.5kV, is present when this monitor is in operation. Operation of the Projection Monitor without the rear cover involves the danger of a shock hazard from the power supply. Servicing should not be attempted by anyone who is not thoroughly familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the projection tube to the Projection Monitor chassis before handling the tube.
- 6. After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazards.

# 1.2. Leakage Current Cold Check

- 1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
- 2. Turn on the Projection Monitor's power switch.
- 3. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the projection monitor, such as screw heads, connectors, control shafts, etc. When the exposed metallic part has a returnpath to the chassis, the reading should be between 4 M  $\Omega$  and 20 M  $\Omega$ . When the exposed metal does not have a return path to the chassis, the reading must be $^{\circ\circ}$ .

# 1.3. Leakage Current Hot Check (See Fig.1)

- 1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
- 2. Connect a 2k  $\Omega$  , 10W resistor, in series with an exposed metallic

part on the projection monitor and an earth such as a water pipe.

- 3. Use an AC voltmeter, with high impedance type, to measure the potential across the resistor.
- 4. Check each exposed metallic part, and measure the voltage at each point.
- 5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
- 6. The potential at any point should not exceed 1.0V rms. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the projection monitor should be repaired and rechecked before it is returned to thecustomer.

#### 1.4. X-Radiation

#### Warning:

- 1. The potential sources of X-Radiation in projection monitor are the High Voltage section and the projection tube.
- 2. When using a projection tube test jig for service, ensure that jig is capable of handling 31.5kV without causing X-Radiation.

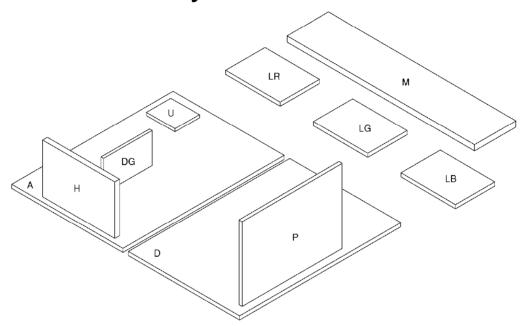
#### Note:

It is important use an accurate periodically calibrated high voltage meter.

- 1. Set the brightness to minimum.
- 2. Set the service switch to the service position.
- 3. Measure the High Voltage. The meter reading should indicate 31.5

- $\pm$  1.0 kV . If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.
- 4. To prevent an X-Radiation possibility, it is essential to use the specified projection tube.

# 2. Chassis Board Layout

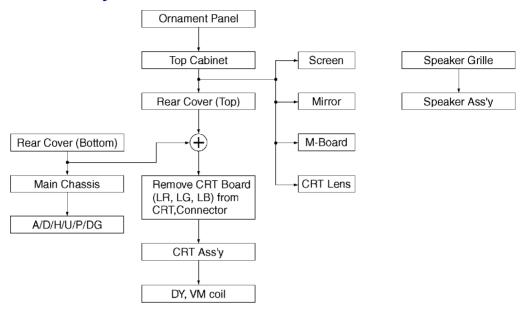


Board-Name	Function
A-Board	Main Signal, Digital Converter
P-Board	Line Filter
D-Board	Deflection, High Voltage
LR-Board	CRT Drive (R)
LG-Board	CRT Drive (G)
LB-Board	CRT Drive (B)
H-Board	Rear terminal
U-Board	MPU
M-Board	Front Terminal, Power Switch
DG-Board	Digital Core

# 3. Disassembly for Service

This flowchart indicates disassembly items of the cabinet parts and circuit boards in order to find the items necessary for servicing, when reassembling, perform the procedures in the reverse order.

# 3.1. Disassembly Flowchart

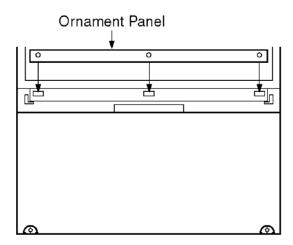


#### Note:

Board ground wires may have to be disconnected to disassemble some boards. All ground wires must be reconnected using jumper leads if necessary before power is applied to Receiver for service.

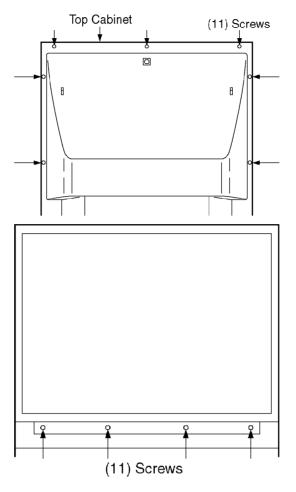
#### 3.2. Ornament Panel

1. The Ornament Panel is secured by (3) striker pins. Grip the Ornament Panel at the side corner pull to remove.



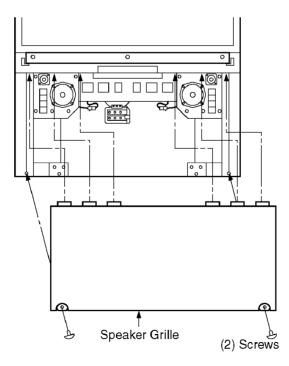
# 3.3. Cabinet (Top)

1. Remove (11) Screws.



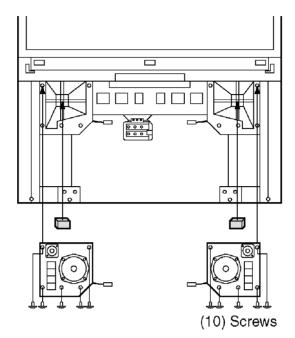
# 3.4. Speaker Grille

# 1. Remove (2) screws.



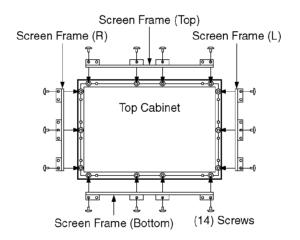
# 3.5. Speaker Ass'y

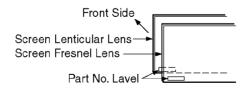
# 1. Remove (10) screws.



# 3.6. Screen

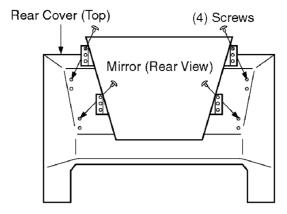
# 1. Remove (14) screws.



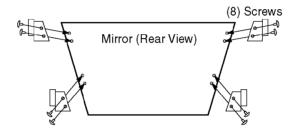


# 3.7. Mirror

# 1. Remove (4) screws.

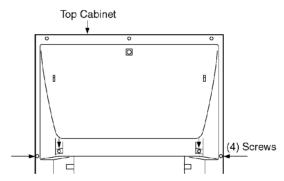


# 2. Remove (8) screws.

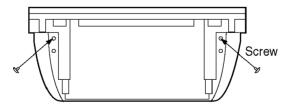


# 3.8. Rear Cover (Top)

1. Remove (4) screws.

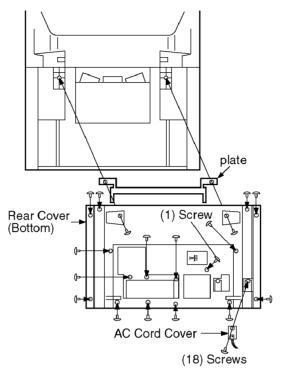


2. Remove (2) screws.



# 3.9. Rear Cover (Bottom)

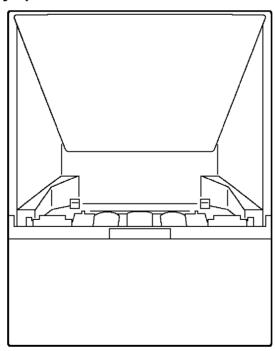
- 1. Remove (18) screws.
- 2. Remove (1) screws.



# 3.10. Disassembly For CRT Removal

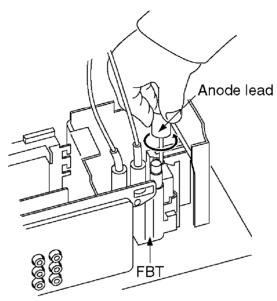
To facilitate CRT replacement, the complete CRT mounting chassis does not need to be removed.

1. Remove the Screen Frame Ass'y, Decorative Panel and the Bottom Rear Cover Ass'y. (See Disassemble for Service).

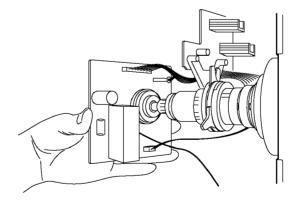


2. From the Rear side, remove the defective CRT's anode lead from the Flyback Transformer block that is mounted secured to the Main chassis E-Board.

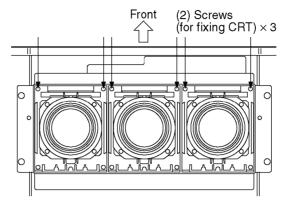
- 3. Grasp the anode lead protective cap body inside, and rotate 1/4 turn counter clockwise and pull anode lead sleeve out of the distributor.
- 4. Discharge anode lead to CRT chassis metal frame.



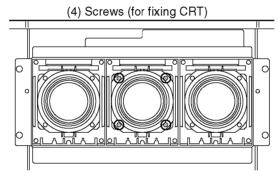
- 5. Unplug the defective CRT Dag ( GND ), from the CRT Board, LBGND for LB, LGGND for LG, LRGND for LR.
- 6. Remove lead wires ( DY, VM coil ) and anode lead wire from holders as necessary.
- 7. Remove the CRT Board from the defective CRT neck.



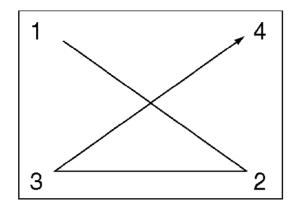
- 8. Note position of yoke with centering tabs and remove from defective CRT.
- 9. From the Top, remove (2) screws from the defective CRT.



- 10. Release CRT anode lead from CRT chassis wire clamp and all other wires from holders.
- 11. Wire the anode lead wire.
- 12. Lift out CRT assembly with lens assembly and other CRT neck assemblies.
- 13. Lay CRT face down on a soft cloth.
- 14. Remove CRT lens by removing (4) screws.



- 15. Install yoke and VM coil with other CRT neck assemblies on CRT neck in the same order and position as removed from the defective CRT.
- 16. Push yoke against bell of CRT and tighten the clamp just snug enough so it will not easily shift.
- 17. Assemble CRT focus lens assembly to new CRT with (4) screws. Make sure focus lens adjustment nut is in the same location as on other CRT focus lens.



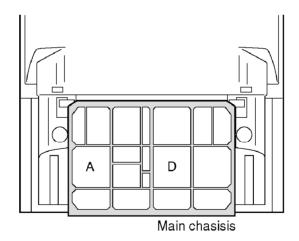
Note:

Please assemble with screws in the order shown in detail and tighten with same torque.

# 4. Service Hints

# 4.1. Service position for Main chassis

- 1. Remove the Rear Cover (Bottom) by removing (19) screws around its perimeter.
- 2. Remove lead wires and bundles from holders as necessary.
- 3. Pull out main chassis and stand it.

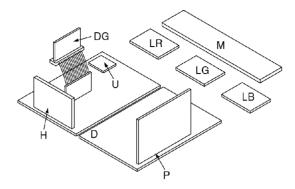


#### 4.2. Service Position for DG-Board

- 1. Remove the each circuit board from A or D-Board.
- 2. Connect extension cables between individual circuit board and A or D-Board.

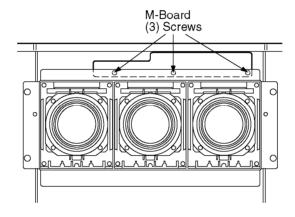
Note:

Extension cable kit is supplied as service fixtures and tools. (Part No. TZSC0724)



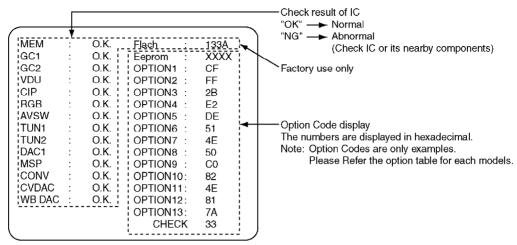
### 4.3. Service Position for M-Board

- 1. Remove the Top Cabinet Ass'y.
- 2. Remove M-Board by removing (3) screws.



# 5. Self Check

- 1. Self-Check is used to automatically check the bus lines and hexadecimal code of the TV set.
- 2. To get into the Self -Check mode press the down ( $-/\vee$ ) button on the customer controls at the front of the set, at the same time pressing the HELP button on the remote control, and thescreen will show:



If the CCU ports have been checked and found to be incorrect or not located then "--" will appear in place of "O.K.".

Display	Ref. No.	Description	P.C.B.
MEM	IC1104	Memory	A-Board
GC1	IC1301	Global core IC Main	DG-Board
GC2	IC1304	Global core IC Sub	DG-Board
VDU	IC1305	Video Processor	DG-Board
CIP	IC1303	CIP	DG-Board
RGB	IC1315	RGB Processor	A-Board
AVSW	IC3001	AV SW	A-Board
TUN1	TNR001	Tuner Main	A-Board
TUN2	TNR002	Tuner Sub	A-Board
DAC1	IC1253	DAC control	A-Board
MSP	IC2001	Stereo Decoder	A-Board
CONV	IC7107	CONVERGENCE	A-Board
CVDAC	IC7121	Conv. DAC	A-Board
WB DAC	IC7702	WB DAC Control	A-Board

# 6. Service Mode Function

MPU controls the functions switching for each IICs through IIC bus in this chassis. The following setting and adjustment can be adjusted by remote control in Service Mode.

#### 6.1. How to enter SERVICE 1

- 1. In sound menu, set BASS to MAX, and set TREBLE to MINIMUM.
- 2. Simultaneously press INDEX button on remote control and VOLUME DOWN button [ ] on the TV set.

# 6.2. How to enter SERVICE 2

- 1. Set the channel to CH99.
- 2. Press HOLD button on remote control.

#### Note:

# To exit to Service mode, press N or Power button on remote control.

Function	Average Data	Function	Average Data		
H-Pos	86	Sub SECAM B-Y	187		
V-Pos	97	Sub SECAM R-Y	72		
H-Amp	57	Video Gain 2	145	7	
V-Amp	184	DAF-H-PARA	287	7	
Parabola	38	DAF V-SAW	9		
Trapezoid	124	DAF V-PARA	28	7	
H-Parallel	8	Coarse Convergence	Access		
V-Linear	34	Fine Convergence	Access		
Top-Corner	20			_	
Bottom-Corner	21	Draggethe DED/O	DEEN LONG A		
V-S-Correct	10		Press the RED/GREEN button to		
C-Correct	3	step up/down thrp			
G-LIMIT	135	<ul> <li>Press the YELLO\</li> </ul>		nange	
B-LIMIT	130	the function values			
WB-B-G-ST1	109	<ul> <li>Press the STR but</li> </ul>	tton after each adjus	stment	
R High(Drive)	0138	has been mode to	store the required v	values.	
G High(Drive)	0128	①Set the Aspect mo	ode 16:9.		
B High(Drive)	0128	a. Receive PAL signal and adjust each ite			
R Low(Cut off)	0627		TSC signal and adju		
G Low(Cut off)	0640	time.	roo orginar arra daja		
B Low(Cut off)	0697	②Set the Aspect mo	nde 4:3		
Sub-Bright	28				
RF AGC 1	17	a. Receive PAL signal and confirm the			
Sub-Contrast	58	picture. Adjust each item if necessary.			
Sub-Colour Sub-NTSC Tint	65 -1				
SECAM B-Y	189	1	TSC signal and conf	firm the	
SECAM R-Y	68	picture.			
RF AGC 2	19	<ul> <li>Adjust each iten</li> </ul>	n if necessary.		
Sub-NTSC Tint2	4	-			
SPL, Gain	ō				
I A					
H99	CH99				
+ !!	+				
D button IN	IDEX button				
SERVICE 2					
Function		Funct	tion		
Y/C Delay	11	OPTION 8		50	
OPTION 1	CF	OPTION 9		C	
OPTION 2	FF	OPTION 1		82	
OPTION 3	2B	OPTION 1		4E	
OPTION 4	E2	OPTION 1		8-	
OPTION 5	DE	OPTION 1	3	7/	
ODTIONA					

# **6.3. Option Descrition**

Colour system  TV NTSC 50 TV SECAM 60 AV NTSC 50 AV SECAM 60 CH Plan  sub picture 2tuner VGA YUV	Auto(1)  SECAM(1)  NTSC(1)  M.NTSC(1)  Reserved  Reserved  Reserved  Reserved  ASIA / M.E. / HK / UK / CHINA(1)  NZ/INDNES(1)  AUSTRALIA(1)  E.EUROPE(1)  SPECIAL(1)  AMERICA(1)  CATV(1)  JAPAN(1)  without sub-picture(0), with sub-picture(1)  2tuner(1), 1tuner(0)  enable(1)
TV NTSC 50 TV SECAM 60 AV NTSC 50 AV SECAM 60 CH Plan sub picture 2tuner VGA	SECAM(1)  NTSC(1)  M.NTSC(1)  Reserved  Reserved  Reserved  Reserved  ASIA / M.E. / HK / UK / CHINA(1)  NZ/INDNES(1)  AUSTRALIA(1)  E.EUROPE(1)  SPECIAL(1)  AMERICA(1)  CATV(1)  JAPAN(1)  without sub-picture(0), with sub-picture(1)  2tuner(1), 1tuner(0)
TV SECAM 60 AV NTSC 50 AV SECAM 60 CH Plan sub picture 2tuner VGA	NTSC(1)  M.NTSC(1)  Reserved  Reserved  Reserved  Reserved  ASIA / M.E. / HK / UK / CHINA(1)  NZ/INDNES(1)  AUSTRALIA(1)  E.EUROPE(1)  SPECIAL(1)  AMERICA(1)  CATV(1)  JAPAN(1)  without sub-picture(0), with sub-picture(1)  2tuner(1), 1tuner(0)
TV SECAM 60 AV NTSC 50 AV SECAM 60 CH Plan sub picture 2tuner VGA	M.NTSC(1) Reserved Reserved Reserved Reserved  ASIA / M.E. / HK / UK / CHINA(1) NZ/INDNES(1) AUSTRALIA(1) E.EUROPE(1) SPECIAL(1) AMERICA(1) CATV(1) JAPAN(1)  without sub-picture(0), with sub-picture(1) 2tuner(1), 1tuner(0)
TV SECAM 60 AV NTSC 50 AV SECAM 60 CH Plan sub picture 2tuner VGA	Reserved Reserved Reserved Reserved  ASIA / M.E. / HK / UK / CHINA(1)  NZ/INDNES(1) AUSTRALIA(1) E.EUROPE(1) SPECIAL(1) AMERICA(1) CATV(1) JAPAN(1)  without sub-picture(0), with sub-picture(1) 2tuner(1), 1tuner(0)
TV SECAM 60 AV NTSC 50 AV SECAM 60 CH Plan sub picture 2tuner VGA	Reserved Reserved Reserved Reserved  ASIA / M.E. / HK / UK / CHINA(1)  NZ/INDNES(1) AUSTRALIA(1) E.EUROPE(1) SPECIAL(1) AMERICA(1) CATV(1) JAPAN(1)  without sub-picture(0), with sub-picture(1) 2tuner(1), 1tuner(0)
AV NTSC 50 AV SECAM 60  CH Plan  sub picture 2tuner VGA	Reserved  Reserved  ASIA / M.E. / HK / UK / CHINA(1)  NZ/INDNES(1)  AUSTRALIA(1)  E.EUROPE(1)  SPECIAL(1)  AMERICA(1)  CATV(1)  JAPAN(1)  without sub-picture(0), with sub-picture(1)  2tuner(1), 1tuner(0)
AV NTSC 50 AV SECAM 60  CH Plan  sub picture 2tuner VGA	Reserved  ASIA / M.E. / HK / UK / CHINA(1)  NZ/INDNES(1)  AUSTRALIA(1)  E.EUROPE(1)  SPECIAL(1)  AMERICA(1)  CATV(1)  JAPAN(1)  without sub-picture(0), with sub-picture(1)  2tuner(1), 1tuner(0)
AV SECAM 60  CH Plan  sub picture 2tuner VGA	Reserved  ASIA / M.E. / HK / UK / CHINA(1)  NZ/INDNES(1)  AUSTRALIA(1)  E.EUROPE(1)  SPECIAL(1)  AMERICA(1)  CATV(1)  JAPAN(1)  without sub-picture(0), with sub-picture(1)  2tuner(1), 1tuner(0)
CH Plan  sub picture  2tuner  VGA	ASIA / M.E. / HK / UK / CHINA(1)  NZ/INDNES(1)  AUSTRALIA(1)  E.EUROPE(1)  SPECIAL(1)  AMERICA(1)  CATV(1)  JAPAN(1)  without sub-picture(0), with sub-picture(1)  2tuner(1), 1tuner(0)
sub picture 2tuner VGA	NZ/INDNES(1) AUSTRALIA(1) E.EUROPE(1) SPECIAL(1) AMERICA(1) CATV(1) JAPAN(1) without sub-picture(0), with sub-picture(1) 2tuner(1), 1tuner(0)
sub picture 2tuner VGA	NZ/INDNES(1) AUSTRALIA(1) E.EUROPE(1) SPECIAL(1) AMERICA(1) CATV(1) JAPAN(1) without sub-picture(0), with sub-picture(1) 2tuner(1), 1tuner(0)
2tuner VGA	AUSTRALIA(1)  E.EUROPE(1)  SPECIAL(1)  AMERICA(1)  CATV(1)  JAPAN(1)  without sub-picture(0), with sub-picture(1)  2tuner(1), 1tuner(0)
2tuner VGA	E.EUROPE(1)  SPECIAL(1)  AMERICA(1)  CATV(1)  JAPAN(1)  without sub-picture(0), with sub-picture(1)  2tuner(1), 1tuner(0)
2tuner VGA	SPECIAL(1)  AMERICA(1)  CATV(1)  JAPAN(1)  without sub-picture(0), with sub-picture(1)  2tuner(1), 1tuner(0)
2tuner VGA	AMERICA(1) CATV(1) JAPAN(1)  without sub-picture(0), with sub-picture(1) 2tuner(1), 1tuner(0)
2tuner VGA	CATV(1)  JAPAN(1)  without sub-picture(0), with sub-picture(1)  2tuner(1), 1tuner(0)
2tuner VGA	JAPAN(1)  without sub-picture(0), with sub-picture(1)  2tuner(1), 1tuner(0)
2tuner VGA	without sub-picture(0), with sub-picture(1) 2tuner(1), 1tuner(0)
2tuner VGA	2tuner(1), 1tuner(0)
2tuner VGA	2tuner(1), 1tuner(0)
VGA	
	enable(1)
YUV	
	enable(1)
CRT	16:9(1), 4:3(0) (change multi window / aspect operation)
HYPER	UHF only (0), UHF/VHF (1)
SIF	4.5 / 5.5 / 6.0 / 6.5(0), 5.5 / 6.0 / 6.5(1)
	5.5 / 6.5(2), 6.0 / 6.5(3)
A2 enable	4.5(1)
	5.5(1)
	6.0(1)
	6.5(1)
NICAM enable	4.5(1)
	5.5(1)
	6.0(1)
	6.5(1)
A2 select 6.5MHz	5.742MHz(0) 6.742MHz(1)
NICAM priority	ASIA / M.E.(1)
	HK / UK(1)
	CHINA(1)
	NZ / INDN(1)
i .	AUSTRA(1)
	E.EURO(1)
	A2 select 6.5MHz

Optio	ns	HM HZ	Х	H G	HQ		ASIA
option	16	51	51	51	D1		
0E5	b0	1	1	1	1	VCR/GAME in search	On(0) Off(1)
	b1	0	0	0	0	SASO enable	SASO enable(1)
	b2	0	0	0	0	Noise mute	Noise mute enable(0)
	b3	0	0	0	0	Monitor out AV1 mute	Monitor out AV1 mute(1)
	b4	1	1	1	1	AV SW 3/2AV out	CXA2069Q(1) CXA2079Q(0)
	b5	0	0	0	0	Tuner	MACO tuner(0), ALPS tuner(1)
	b6	1	1	1	1	Child lock	Child lock enable(1)
	b7	0	0	0	1	No motion control	No motion cotrol in film mode(1)
option	7	4E	4E	4E	4E		
0E6	b0	0	0	0	0	Power up EC-Mode	Power on EC enable (1)
	b1	1	1	1	1	CH Blanking	Blanking enable(1)
	b2	1	1	1	1	AV Blanking	Blanking enable(1)
	b3	1	1	1	1	Auto WIDE	WSS enable only in aspect Auto (0), WSS always enable (1)
	b4	0	0	0	0	Volume correction	TV Volume correction enable(1)
	b5	0	0	0	0	AVLink	Q-Link on/off selectable in menu(1)
	b6	1	1	1	1	MPX/NICAM display	Display NICAM(0), Display MPX(1)
	b7	0	0	0	0	free	
option	8	50	50	50	D0		
0E7	b0	0	0	0	0	Teletext CH Refrech	enable (1)
	b1	0	0	0	0	Geomagnetic Sensor	Geomagnetic sensor enable(1)
	b2	0	0	0	0	Geomagnetic Polarity	Geomagnetic polarity +(0), -(1)
	b3	0	0	0	0	attenuater menu	Enable (1)
	b4	1	1	1	1	Fine tuning	Enable(1)
	b5	0	0	0	0	Search speed	Slow(1) Fast(0)
	b6	1	1	1	1	TEXT FLOF	Reserved
	b7	0	0	0	1	TEXT TOP	TOP enable(1)
option	9	C0	CO	C0	C0		
0E8	b0	0	0	0	0	Dolby	Dolby enable (1)
	b1	0	0	0	0	3D Subwoofer	Subwoofer enable(1) Dolby model should be 0.
	b2	0	0	0	0	Optical 2 inputs	Optical 1 input(0), 2 inputs(1)
	b3	0	0	0	0	free	
	b4	0	0	0	0	free	
	b5	0	0	0	0	SL SR PHASE	NON REVERSE(0), REVERSE(1)
	b6	1	1	1	1	Volume curve	Volume curve1(0), curve2(1)
	b7	1	1	1	1	Volume EXDAC	Add Volume control by EXDAC(1)
option	10	88	82	88	88		
0E9	b0	0	0	0	0	free	
	b1	0	1	0	0	OSD language	Arabic enable(1)
	b2	0	0	0	0		Russian enable(1)
	b3	1	0	1	1		Chinese enable(1)
	b4	0	0	0	0	Blue Back	enable(0)
	b5	0	0	0	0	BC Safety	Reserved
	b6	0	0	0	0	Protect XPR	Reserved
	b7	1	1	1	1	Protect 5V detect	Protection input enable(1)

Options Model		HM HZ	х	H G	HQ		ASIA
option	111	4E	4E	4E	4E		
0EA	b0	0	0	0	0	Shop mode	Max contrast(1), Normal(0)
	b1	1	1	1	1	DDM/Dynamic display	Reserved
	b2	1	1	1	1	Sub Headphone	enable(1)
	b3	1	1	1	1	Scan mode Blanking	Blanking enable(1)
	b4	0	0	0	0	User aspect 14:9	enable(1)
	b5	0	0	0	0	NICAM C4 bit	enable(1)
	b6	1	1	1	1	ID-1	enable(1)
	b7	0	0	0	0	10801	enable(1)
option	112	81	81	81	83	Area Option	
0EB	b0	1	1	1	1	Asia	Asia(1), europe(0)
	b1	0	0	0	1	Australia	Australia(1)
	b2	0	0	0	0	Ireland	not use
	b3	0	0	0	0	UK	not use
	b4	0	0	0	0	MELCOA	MELCOA(1)
	b5	0	0	0	0	28 inch	28 inch(1) when only Large size=0, Wide=1, PTV=0
	b6	0	0	0	0	LED	52(1) / 42(0) for PTV, 36(1) / 32(0) for Wide, 34(1) / 29(0) for 4:3
	b7	1	1	1	1	PTV	PTV(1)
option	113	7A	7A	72	7A	Temporary	
0EC	b0	0	0	0	0	VDU Version	A21(0), A12(1)
	b1	1	1	1	1	GC Version	ES5(0), ES6(1)
	b2	0	0	0	0	UV Swap	Swap(1)
	b3	1	1	0	1	TEXT	Enable(1)
	b4	1	1	1	1	Main GC ES7	ES7(1), ES5/6(0)
	b5	1	1	1	1	Sub GC ES7	ES7(1), ES5/6(0)
	b6	1	1	1	1	Picture Shift	ON(1), OFF(0)
	b7	0	0	0	0	CIP2	without CIP1(0), with CIP1(1)

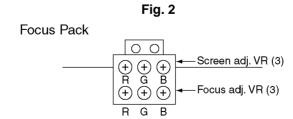
# 7. CRT Set Up

#### Caution:

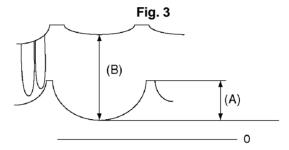
Insure yoke plugs on the A-Board are reconnected before turning the Receiver ON to prevent damage to the horizontal output transistor and/or CRTs.

# 7.1. Dynamic Focus Adjustment

- 1. Focus adjustments should be performed after 1 hour of aging.
- 2. Use oscilloscope with 100 : 1 probe.
- 3. Apply monoscope pattern.
- 4. Adjust the Red, Blue and Green focus VR on the focus block for best focus of overall picture of each CRT. (Fig. 2)



- 5. Connect the scope probe to TPD20, GND to TPD21. Scope set at 20V/div & 5m sec./div.
- 6. Adjust V-PARA (Service mode1) so that waveform (A) is 380V ± 20V. (Fig. 3)
- 7. Adjust H-PARA (Service mode1) so that waveform (B) is  $560V \pm 40V$ . (Fig. 3)



8. Proceed with Focus Adjustments.

### 7.2. Electrical Focus Adjustment

- 1. Receive a monoscope pattern.
- 2. Cover the Red and Blue CRT, projecting Green only.

  The electrical focus controls are located on the front. Adjust the Green Focus VR for best focus of overall picture. (Fig. 2)
- 3. Repeat for Red focus VR while projecting Red only.
- 4. Repeat for Blue. (Best focus at bottom left corner of screen)

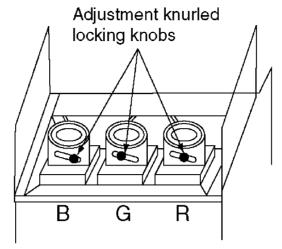
# 7.3. Optical Lens Focus Adjustment

#### Note:

This adjustment normally should not require resetting unless the lens has been replaced or adjustment has changed.

1. Optical focus adjustment is located on the top of each CRT lens system. Loosen the adjustment knurls locking knob. (Fig. 4)

Fig. 4 (Rear view)



Optical lens focus adjustment

- 2. Turn the Receiver ON apply and view a monoscope pattern.
- 3. Adjust each lens focus for best focus while viewing each CRT.
- 4. Cover the Red and Blue CRT, projecting green only.Rotate the Green lens for best focus around screen center area.
- 5. Do the same for the Red focus lens while projecting Red only.
- 6. Repeat for Blue.

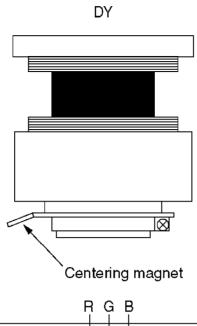
### 7.4. Centering Magnet Adjustment

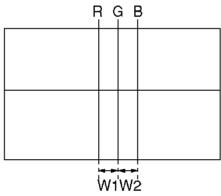
- 1. Receive a monoscope pattern.
- 2. Confirm that Coarse convergence data (Service mode1) for R,G and B is 0.
- 3. Set that Fine convergence data (Service mode1) is clear (no correction).
- 4. Set that V-Pos data (Service mode1) is [100].
- 5. Set that H-Pos data (Service mode1) is [55].
- 6. Set that H-Parallel data (Service mode1) is [8].

#### Procedure:

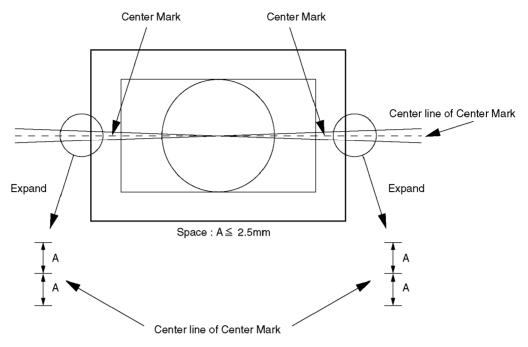
- 1. Cover the Red, Blue CRT lens, projecting Green only.
- 2. Adjust green centering magnet (DY) if the projected green horizontal/vertical line does not line up with the screen horizontal/vertical center line.
- 3. Cover the Green, Red CRT lens, projecting Blue only.

- 4. Repeat step 2. for blue.
- 5. Cover the Green, Blue CRT lens, projecting Red only.
- 6. Repeat step 2. for red.
- 7. Cover the Red, Blue CRT lens, projecting Green only.
- 8. Adjust green centering magnets until the center of the monoscope pattern line up with the screen center line.
- 9. Cover the Green, Red CRT lens, projecting Blue only.
- 10. Adjust blue centering magnets to position the center of the blue raster W2 away from the center of the green raster.
- 11. Cover the Green, Blue CRT lens, projecting Red only.
- 12. Adjust red centering magnets to position the center of the red raster W1 away from the center of the green raster.





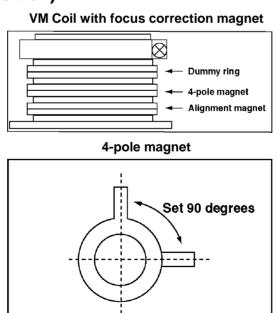
51inch	W1=17.5mm ± 2.5mm W2=17.5mm ± 2.5mm
43inch	W1=10.0mm ± 2.0mm W2=10.0mm ± 2.0mm



# 7.5. Alignment magnet Adjustment

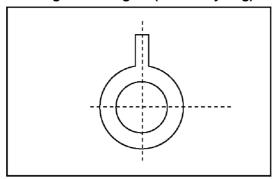
#### Preparation:

- 1. Receive an cross hatch pattern with dots (pincushion).
- 2. Loosen the centering magnets screws.
- 3. Position the longer tab of the four-pole magnet to 90 degrees (uncorrected position).



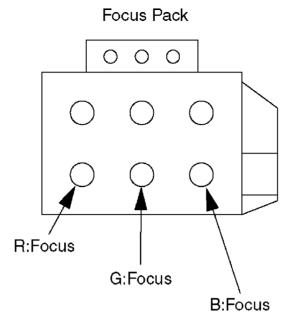
4. Position the long tab of all alignment magnets and of the dummy ring together in an uncorrected position.

Alignment magnet (or dummy ring)



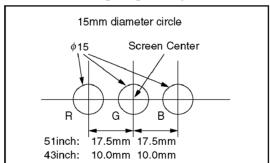
#### Procedure:

- 1. Receive an cross hatch pattern with dots.
- 2. Cover the Red, Blue CRT lens, projecting Green only.
- 3. Turn the green electrical focus adjustment VR (on focus pack) fully counterclockwise and note the position of the dots at the center of the picture.
- 4. Turn the green electrical focus adjustment VR fully clockwise.
- 5. Adjust the four pole magnets until the shape of the dot at the center of the screen is circular.
- 6. Adjust for best green electrical focus with green electrical focus adjustment VR.
- 7. Cover the Green, Red CRT lens, projecting Blue only.
- 8. Repeat step 4. ~ step 6. for blue electrical focus.
- 9. Cover the Green, Blue CRT lens, projecting Red only.
- 10. Repeat step 4. ~ step 6. for red electrical focus.



- 11. Receive an monoscope pattern.
- 12. Cover the Red, Blue CRT lens, projecting Green only.
- 13. If the center of the monoscope pattern is not inside the 15mm circle, shown in below, adjust the centering magnets. Repeat the alignment magnet adjustments and four pole magnet adjustments (step 1. ~ step 6.)

Centering magnet adjustment



- 14. Cover the Green, Blue CRT lens, projecting Red only.
- 15. Repeat step 13. for the red.
- 16. Cover the Green, Red CRT lens, projecting Blue only.
- 17. Repeat step 13. for the blue.
- 18. Following adjustments, fix the centering magnets of DY, dummy rings of VM coil, four pole magnets of VM coil and the alignment magnets of VM coil to prevent them from moving.

# 8. Deflection Adjustment

#### Caution

- 1. The following adjustment have to be carried out one with PAL signal (100i/50p) and with NTSC signal (60p/120i).
- 2. Deflection adjustment need to set the Coarse/Fine Convergence to Zero Correction some time.
- 3. Before Deflection Adjustment are attempted, CRT Set up, Electrical Focus and Optical Lens Focus adjustment must be completed.

### 8.1. PAL 100Hz mode (100i)

#### 8.1.1. Preparation

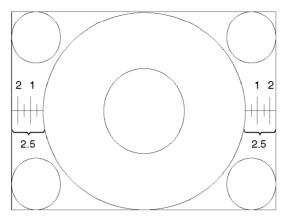
- 1. Receive PAL monoscope pattern.
- 2. Set scan mode to 100Hz.
- 3. Set the Picture Menu to NORMAL.
- 4. Set the TV to Service Mode 1.
- 5. Set the Data of Service Mode 1 as follow

H-Pos	55	Top-Corner	21
V-Pos	100	Bottom- Corner	21
H-Parallel	8	V-S-Correct	10
V-Linear	33	C-Correct	4

- 6. Push [ 0 ] button so that set the Data of Coarse/Fine Convergence to Zero Correction.
- 7. Push [ HELP ] button so that projecting Green only.

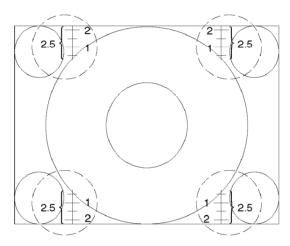
#### 8.1.2. H-Pos and H-Amp Adjustment

- 1. Adjust Monoscope pattern for center of the screen by H-Poscontrol.
- 2. Adjust Horizontal amplitude for 2.5  $\pm$ 0.1 division of a scale by H-Amp control.

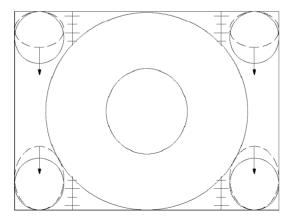


# 8.1.3. V-Amp, V-Linear and V-Pos Adjustment

1. Adjust Vertical amplitude for 2.5  $\pm$  0.1 division of a scale by V-Amp control.



2. Confirm Vertical Linear as to the balance of circle, if need adjust V-Linear control.



- 3. Confirm Vertical Center, if it is not correct, adjust Monoscope pattern for center of the screen by V-Pos control.
- 8.1.4. Parabola and Trapezoid Adjustment

- 1. Receive PAL cross hatch pattern.
- 2. Adjust the vertical line to straight line by Parabola control.
- 3. Adjust the vertical line to straight line of both side Vertical line by Trapezoid control.

### 8.2. PAL Progressive mode (50p)

# 8.2.1. Preparation

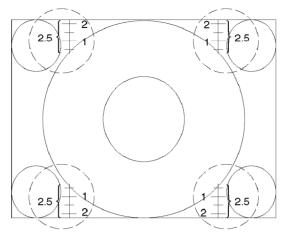
- 1. Receive PAL monoscope pattern.
- 2. Copy the Data of PAL 100Hz mode (100i) to PAL Progressive mode (50p)
- 3. Set scan mode to progressive.
- 4. Set the Picture Menu to NORMAL.
- 5. Set the TV to Service Mode 1.
- 6. Set the Data of Service Mode 1 as follow

H-Parallel	8	Bottom- Corner	21
V-Linear	36	V-S-Correct	10
Top-Corner	21	C-Correct	5

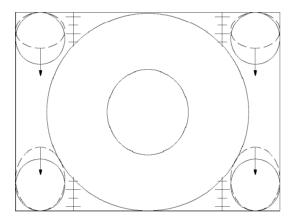
- 7. Push [ 0 ] button so that set the Data of Coarse/Fine Convergence to Zero Correction.
- 8. Push [ HELP ] button so that projecting Green only.

### 8.2.2. V-Amp, V-Linear and V-Pos Adjustment

1. Adjust Vertical amplitude for  $2.5 \pm 0.1$  division of a scale by V-Amp control.



2. Confirm Vertical Linear as to the balance of circle, if need adjust V-Linear control.



- 3. Confirm Vertical Center, if it is not correct, adjust Monoscope pattern for center of the screen by V-Pos control.
- 8.3. NTSC Progressive mode (60p)

### 8.3.1. Preparation

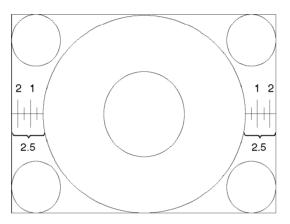
- 1. Receive NTSC monoscope pattern.
- 2. Set scan mode to Progressive.
- 3. Set the Picture Menu to NORMAL.
- 4. Set the TV to Service Mode 1.
- 5. Set the Data of Service Mode 1 as follow

H-Parallel	8	Bottom-	21
		Corner	
V-Linear	35	V-S-Correct	10
Top-Corner	20	C-Correct	4

- 6. Push [ 0 ] button so that set the Data of Coarse/Fine Convergence to Zero Correction.
- 7. Push [ HELP ] button so that projecting Green only.

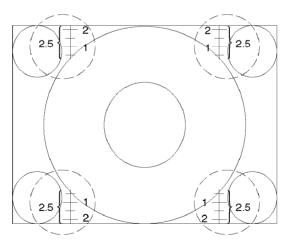
### 8.3.2. H-Pos and H-Amp Adjustment

- 1. Adjust Monoscope pattern for center of the screen by H-Poscontrol.
- 2. Adjust Horizontal amplitude for 2.5  $\pm$  0.1 division of a scale by H-Amp control.

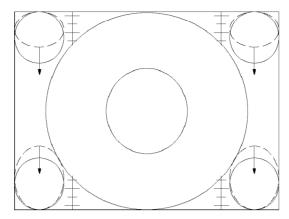


### 8.3.3. V-Amp, V-Linear and V-Pos Adjustment

1. Adjust Vertical amplitude for 2.5  $\pm$  0.1 division of a scale by V-Amp control.



2. Confirm Vertical Linear as to the balance of circle, if need adjust V-Linear control.



3. Confirm Vertical Center, if it is not correct, adjust Monoscope pattern for center of the screen by V-Pos control.

#### 8.3.4. Parabola and Trapezoid Adjustment

- 1. Receive NTSC cross hatch pattern.
- 2. Adjust the vertical line to straight line by Parabola control.
- 3. Adjust the vertical line to straight line of both side Vertical line by Trapezoid control.

### 8.4. NTSC 120Hz mode (120i)

#### 8.4.1. Preparation

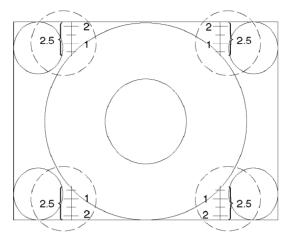
- 1. Receive PAL monoscope pattern.
- 2. Copy the Data of to NTSC Progressive mode (60p) to NTSC 120Hz mode (120i).
- 3. Set the Picture Menu to NORMAL.
- 4. Set scan mode to 120Hz.
- 5. Set the TV to Service Mode 1.
- 6. Set the Data of Service Mode 1 as follow

H-Parallel	8	Bottom-	21
		Corner	
V-Linear	30	V-S-Correct	10
Top-Corner	20	C-Correct	4

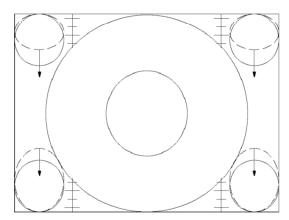
- 7. Push [ 0 ] button so that set the Data of Coarse/Fine Convergence to Zero Correction.
- 8. Push [ HELP ] button so that projecting Green only.

### 8.4.2. V-Amp, V-Linear and V-Pos Adjustment

1. Adjust Vertical amplitude for 2.5 ±0.1 division of a scale by V-Amp control.



2. Confirm Vertical Linear as to the balance of circle, if need adjust V-Linear control.



- 3. Confirm Vertical Center, if it is not correct, adjust Monoscope pattern for center of the screen by V-Pos control.
- 8.5. 525p Deflection Adjustment / Confirmation
- 8.5.1. V / H-Deflection confirmation
- 1. Receive 525p signal.
- 2. Confirm V / H-Deflection is normal.
- 8.5.2. H-Pos confirmation / Adjustment
- 1. Receive 525p signal.
- 2. Confirm H-Pos and if need, adjust H-Pos.

### 8.6. 625p Deflection Adjustment / Confirmation

8.6.1. V / H-Deflection confirmation

- 1. Receive 625p signal.
- 2. Confirm V / H-Deflection is normal

8.6.2. H-Pos confirmation / Adjustment

- 1. Receive 625p signal.
- 2. Confirm H-Pos and if need, adjust H-Pos.

# 9. Adjustment Procedure

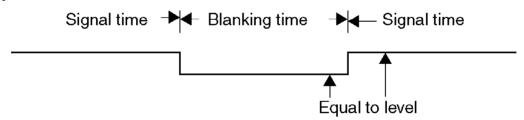
### 9.1. SECAM Black Level Adjustment

**Preparation** 

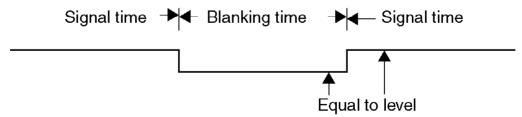
Picture Menu: Dynamic

AI: ON Adjustment

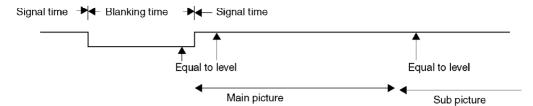
- 1. Receive SECAM white pattern.
- 2. Connect an oscilloscope to A44 pin 39(B-Y OUT) on A-Board.
- 3. Adjust SECAM B-Y so that H-blanking time and colour center are equal level.



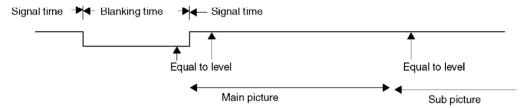
- 4. Connect an oscilloscope to A44 pin 41(R-Y OUT) on A-Board.
- 5. Adjust SECAM R-Y so that H-blanking time and colour center are equal level.



- 6. Connect an oscilloscope to A44 pin 39(B-Y OUT) on A-Board.
- 7. Adjust Sub SECAM B-Y so that H-blanking time and colour center are equal level.



- 8. Connect an oscilloscope to A44 pin 41(R-Y OUT) on A-Board.
- 9. Adjust Sub SECAM R-Y so that H-blanking time and colour center are equal level.



### 9.2. Cut off Adjustment

**Preparation** 

Picture Menu: Dynamic WB-B-G-ST1: 255

C Temp: Standard High-RGB: 128

AI: ON Low-RGB: 640 P-NR: ON Cut off: A8

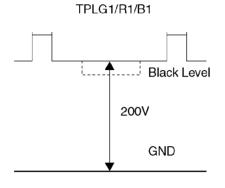
Scan Mode: 100Hz (PAL) G-Limit: 255

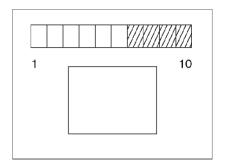
Screen VR: Full Counterclockwise B-Limit: 255

**Adjustment** 

- 1. Receive a Black Level pattern.
- 2. Connect an oscilloscope to TPLG1 on LG-Board.
- 3. Adjust Sub Bright so that the waveform A is  $200 \pm 2V$ .
- 4. Connect an oscilloscope to TPLR1 on LR-Board.
- 5. Adjust Low-R so that the waveform A is  $200 \pm 2V$ .
- 6. Connect an oscilloscope to TPLB1 on LB-Board.
- 7. Adjust Low-B so that the waveform A is 200 ? 2V.
- 8. It pushes and it makes a [HELP] key the project only of GREEN.
- 9. The 6th paragraph shines faintly with the screen VR of GREEN and the 7th paragraph does to the sinking style.
- 10. It pushes and it makes a [HELP] key the project only of RED.
- 11. The paragraph shines faintly with the screen VR of RED and the 7th paragraph does to the sinking style.

- 12. It pushes and it makes a [HELP] key the project only of BLUE.
- 13. The 6th paragraph shines faintly with the screen VR of BLUE and the 7th paragraph does to the sinking style.





## 9.3. Sub Contrast / G-Limit Adjustment

**Preparation** 

Picture Menu : Dynamic WB-B-G-ST1 : 255

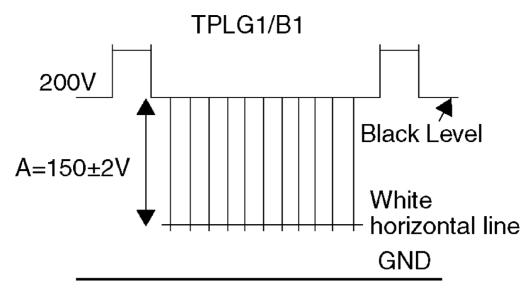
C Temp: Standard High-RGB: 128

AI : ON Low-RGB : 640
P-NR : ON G-Limit : 255
Scan Mode : 100Hz (PAL)

Cut off Adjustment has been adjusted

**Adjustment** 

- 1. Receive a Cross Hatch pattern.
- 2. Connect an oscilloscope to TPLG1 on LG-Board.
- 3. Adjust Sub Contrast so that the waveform A is  $150 \pm 2V$ .
- 4. Before G-Limit Adjustment is attempted, Sub Contrast adjustment must be completed.
- 5. Adjust G-Limit so that the waveform A is  $125 \pm 2V$ .



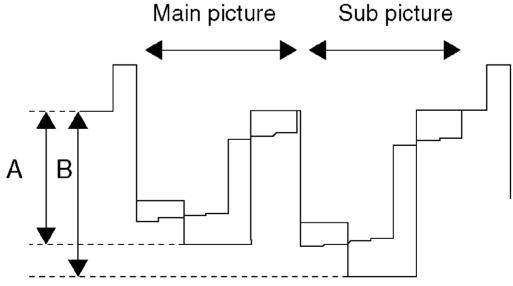
## 9.4. Sub Picture Contrast Adjustment

**Preparation** 

Picture Menu: Dynamic

AI : ON Adjustment

- 1. Receive a Colour Bar pattern.
- 2. Connect an oscilloscope to TPLG1 on LG-Board.
- 3. Increment / Decrement Video gain2 to adjust Sub-Video level B as same as Main video level A.



## 9.5. NTSC Tint Adjustment

Preparation

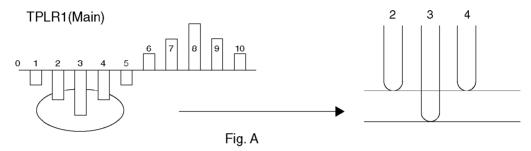
Picture Menu: Dynamic P-NR: ON

C Temp: Standard Scan Mode: 100Hz (PAL)

AI: ON

#### **Adjustment**

- 1. Receive a Rainbow (NTSC 3.58Hz) pattern.
- 2. Connect an oscilloscope to TPLR1 on LR-Board.
- 3. Adjust Sub NTSC Tint so that the peak of level of waveform is similar to Fig. A.



- 4. Receive a Rainbow (NTSC 3.58Hz) pattern on both of Main and Sub picture.
- 5. Adjust Sub NTSC Tint 2 so that the peak of level of waveform is similar to Fig. B.

TPLR1(Sub)

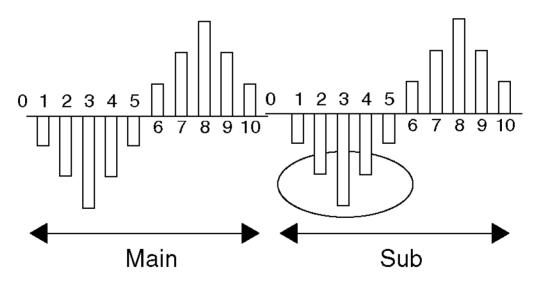


Fig. B

## 9.6. Sub Color Adjustment

**Preparation** 

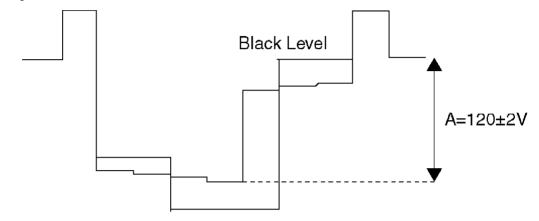
Picture Menu: Dynamic P-NR: ON

C Temp: Standard Scan Mode: 100Hz (PAL)

AI: ON ACL: OFF

**Adjustment** 

- 1. Receive a PAL Colour Bar pattern.
- 2. Connect an oscilloscope to TPLG1 on LG-Board.
- 3. Adjust Sub Color so that the waveform A is  $120 \pm 2V$ .



## 9.7. Blue Focus / Gamma Adjustment

**Preparation** 

Picture Menu: Dynamic WB-B-G-ST1: 0

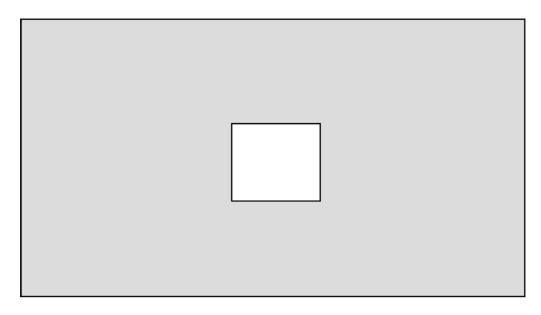
C Temp : Standard B-Limit : 255

AI : ON P-NR : ON

Scan Mode: 100Hz (PAL)

**Adjustment** 

- 1. Set the White Balance Meter on Screen center.
- 2. Receive a Window pattern.
- 3. Set the Sub Contrast and High-B to Max.
- 4. It pushes and it makes a [HELP] key the project only of BLUE.
- 5. Adjust Blue Focus VR so that Y is 4.0 ± cd/m<sup>2</sup>



## 9.8. White Balance Adjustment

**Preparation** 

Picture Menu: Dynamic Sub Bright: 60

C Temp: Dynamic High R: 90

AI : ON High G : 128 P-NR : ON High B : 90

Scan Mode: 100Hz (PAL) WB-B-G-ST1: 130

Low G: 640 Adjustment

- 1. Set the White Balance Meter on Screen center.
- 2. Receive a Window pattern.
- 3. Adjust Sub Bright so that the 6th paragraph shines faintly and the 7th paragraph does to the sinking style.
- 4. Adjust High R, WB-B-G-ST1, High B, Low R, and Low B to the table value.

Mode	Bright	Controle DAC name		Target (x)	C. Temp	MPCD
	(cd/m²)	RED	BLUE	(y)	(K)	
Hi	80	High R	WB-B-G-ST1	0.270 ± 0.005	13000 ± 500	-5 ± 5
FI   80		nigii n	WD-D-G-311	0.244 ± 0.005	13000 ± 300	_5±5
Mid	00		Himb D	0.277	11500 ± 500	-20 ± 5
IVIIG	20		High B	0.244 ± 0.005	11300 ± 300	-20±3
	1.0	Law D	Law D	0.287 ± 0.008	9200 ± 500	-25 ± 5
Low	1.8	Low R Low B		0.240 ± 0.008	9200 ± 500	-23 I 3

## 9.9. Sub Bright Adjustment

**Preparation** 

Picture Menu: Dynamic P-NR: ON

C Temp: Dynamic Scan Mode: 100Hz (PAL)

AI: ON

**Cut off and White Balance Adjustment has been adjusted Adjustment** 

- 1. Set the White Balance Meter on Screen center.
- 2. Receive a PAL Window pattern.
- 3. Adjust Sub Bright so that the 7th paragraph shines faintly and the 8th paragraph does to the sinking style.

#### 9.10. Blue Limit Adjustment

**Preparation** 

Picture Menu : Dynamic C Temp : Standard

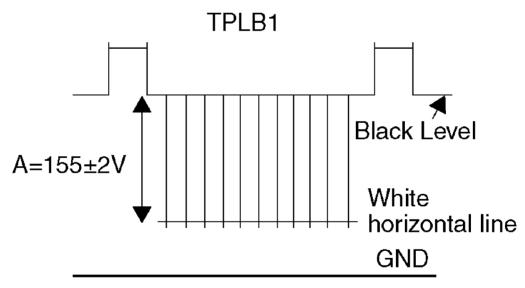
AI : ON P-NR : ON

Scan Mode: 100Hz (PAL)

White Balance Adjustment has been adjusted

**Adjustment** 

- 1. Receive a Cross Hatch pattern.
- 2. Connect an oscilloscope to TPLB1 on LB-Board.
- 3. Adjust B-LIMIT so that the waveform A is  $155 \pm 2V$ .



## 10. Convergence Adjustment

The convergence adjustment is set separately for each 50/100Hz/60/100Hz input (NTSC, PAL/SECAM). The following explanation uses the PAL mode as an example, since the same procedure applies to the convergence adjustmentfor NTSC mode.

When replacing the following Parts.

IC7101 (EEP-ROM in Digital Convergence Circuit)L551 (Pincushion Coil)High Voltage Producing PartsOther Parts (If change the convergence)

Create an Adjustment Sheet by tracing the following specifications in their actual size on transparent film or tracing paper. Then adjust the convergence.

When replacing one of the CRT's.

Adjust the convergence for each of the 50/100Hz and 60/120Hz inputs so that they are aligned with the other colours.

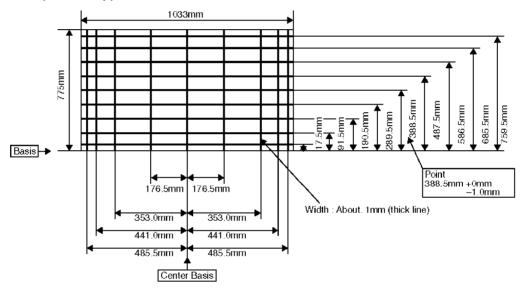
#### **Helpful Hint**

All positions which have been adjusted are recorded within P-2 for NTSC data and P-3 for PAL data of the memory. This data can be copied to P-4 memory area, allowing you to perform the adjustment of P-2 (NTSC) and P-3 (PAL). To perform these adjustments, push the SEARCH button on the remote control, and manipulate the position [ ] and [ ] button and the "N" button as instructed by the On Screen Display in Fine Convergence adjustment.

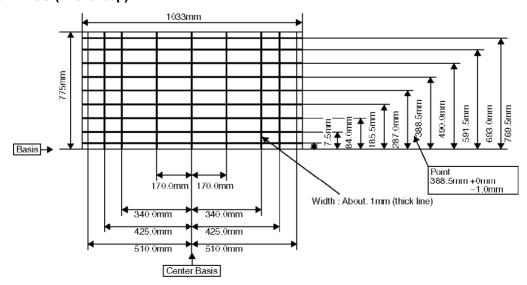
All of the Convergence Control Charts have been listed for the remote control buttons after the Convergence Adjustment Procedure Please refer to these.(Page 29 and 30)

#### 10.1. Convergence Adjutment Sheet

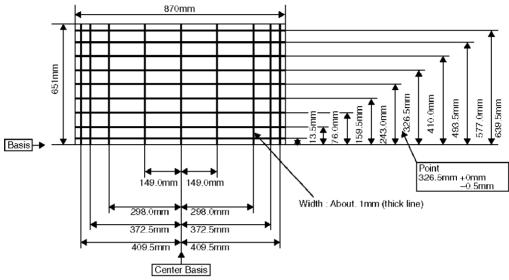
51 inch PAL (100i & 50p)



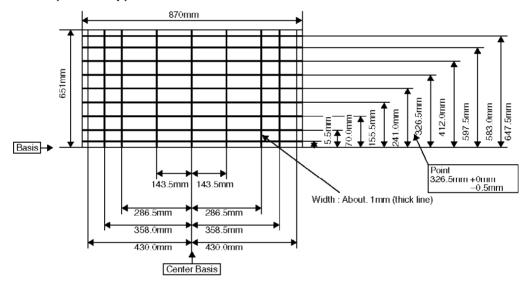
#### 51 inch NTSC (120i & 60p)



#### 43 inch PAL (100i & 50p)



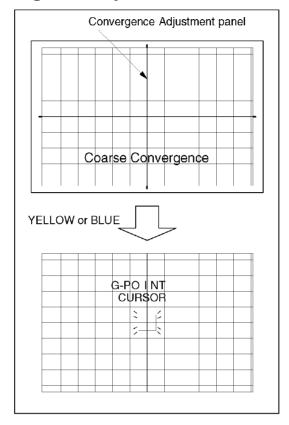
#### 43 inch NTSC (120i & 60p)



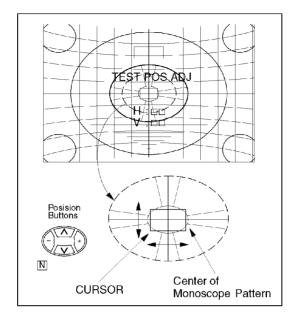
## 10.2. Convergence Adjustment Procedure

- 1. Input a monoscope pattern of PAL.
- 2. Enter the Service Mode1.
- 3. Select the Coarse Convergence by pushing "RED" or "GREEN" buttons. Then push "YELLOW" button, and push Position and [N] buttons to set the data to zero.
- 4. Stick the Convergence Adjustment Sheet (PAL 50Hz) onto the screen.
- 5. Push the "YELLOW" or "BLUE" on the remote control, and enter

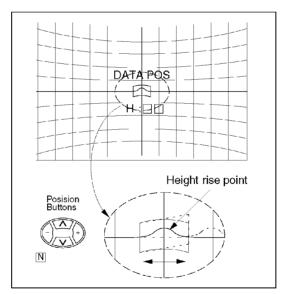
## the Coarse Convergence Adjustment mode.



- 6. Push the "0" of 10 key buttons, and then push the "N" of position buttons on the remote control.
- 7. Enter to "TEST POS." mode.
- 8. Push the "5" button to display the monoscope pattern on the screen.
- 9. Adjust the position buttons so that the cursor in the center of the test pattern is aligned with the center of the monoscope pattern.



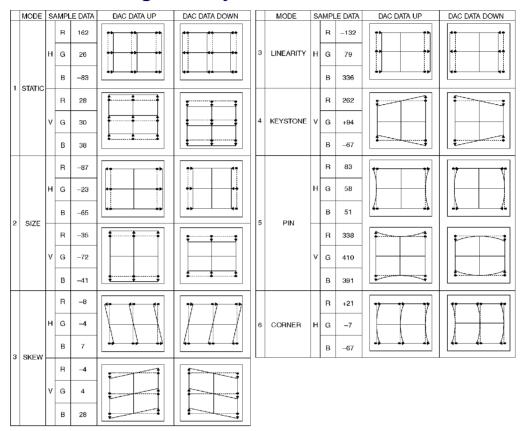
- 10. Push the "TV/AV" button on the remote control, and enter the "DATA POS." mode.
- 11. Push the "5" button and close the background image (monoscope pattern).
- 12. Use the "◀" and "▶" of the position buttons so that the bump in the screen center line is at the center of the cursor.



- 13. Push the "TV/AV" button twice, and enter the "OSD POS" mode.
- 14. Adjust the position buttons so that the cross-cursor is aligned near cross-bar.
- 15. Push the "SET UP" button, and "N" button to store data.

# 16. Push the "0" of 10 key buttons, and return to Coarse Convergence Adjustment mode.

#### 10.3. Coarse Convergence Adjustment mode

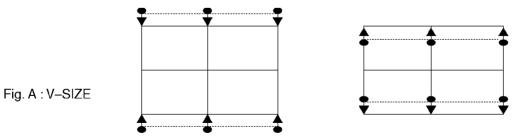


#### 10.3.1. Green Coarse Convergence Adjustment

10.3.1.1. Reparation

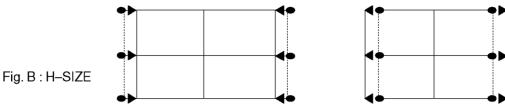
Push the "SOUND" button, and select the Green Adjustment mode.Push the "2" button, and select the "Border and Cross" pattern.Push the "MUTE" button, and select the "Green" colour. 10.3.1.2. "G-SIZE (V)" adjustment

Push the "TV/AV" buttons, and select the "G-SIZE (V)".Push the "Channel up/down" buttons, and adjust the upper and lower boarder line of test pattern is aligned with the edge of the screen frame.



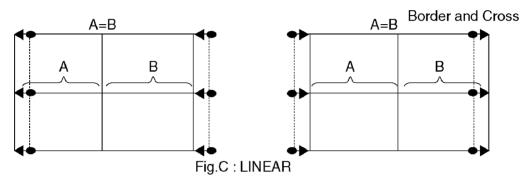
10.3.1.3. "G-SIZE (H)" adjustment

Push the "TV/AV" buttons, and select the "G-SIZE (H)". Push the "Volume up/down" buttons, and adjust the boarder line on either side of test pattern is aligned with the edge of the screen frame.



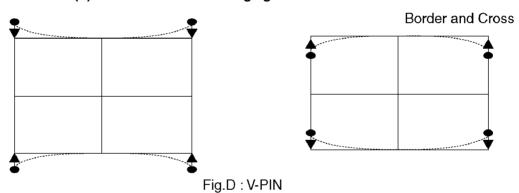
10.3.1.4. "G-LINEAR" adjustment

Push the "TV/AV" buttons, and select the "G-LINEAR".Push the "Volume up/down" buttons, and adjust the "G-LINEAR" to become the following figure.



10.3.1.5. "G-PIN (V)" adjustment

Push the "TV/AV" buttons, and select the "G-PIN".Push the "Channel up/down" buttons, and adjust the "G-PIN (V)" to become the following figure.



10.3.1.6. "G-PIN (H)" adjustment

Push the "TV/AV" buttons, and select the "G-PIN".Push the "Volume up/down" buttons, and adjust the "G-PIN (H)" to become the following figure.

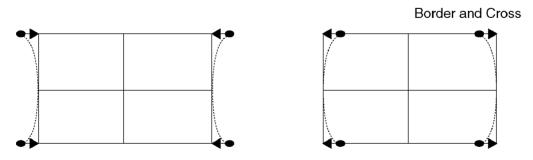


Fig.E: H-PIN

10.3.1.7. "G-CORNER" adjustment

Push the "TV/AV" buttons, and select the "G-CORNER".Push the "Volume up/down" buttons, and adjust the "G-CORNER" to become the following figure.

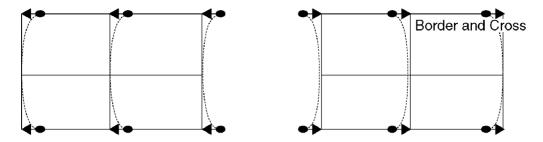


Fig.F: CORNER

#### 10.3.1.8. "G-KEY" adjustment

Push the "TV/AV" buttons, and select the "G-KEY". Push the "Channel up/down" buttons, and adjust the "G-KEY" refer to following figure.

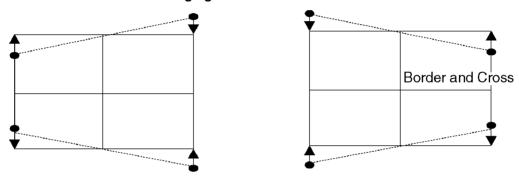


Fig.G: KEY

#### 10.3.1.9. "G-STATIC" adjustment

Push the "TV/AV" buttons, and select the "G-STATIC".Push the "Channel/Volume up/down" buttons, and adjust "G-STATIC" so that Horizontal & Vertical center line is aligned with the bump in the screen center mark.

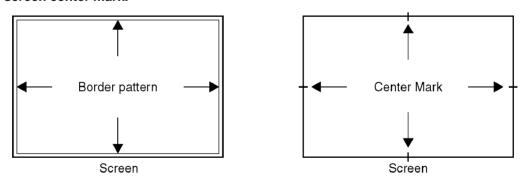


Fig.H STATIC

#### 10.3.2. Red Coarse Convergence Adjustment

#### **10.3.2.1.** Reparation

Push the "SOUND" button, and select the Red Adjustment mode. Push the "2" button, and select the "Border and Cross" pattern. Push the "MUTE" button, and select the "Yellow" colour. Push the "POSITION" button, and adjust the "R-STATIC" so that the Redcolor of pattern is aligned with Green colour of pattern.

# R\_STATIC Border and Cross Green

Fig.I: R-STATIC

#### 10.3.2.2. "R-SKEW (V)" adjustment

Push the "TV/AV" buttons, and select the "R-SKEW".Push the "Volume up/down" buttons, and adjust the reference line become a vertical line. (Refer to figure.)

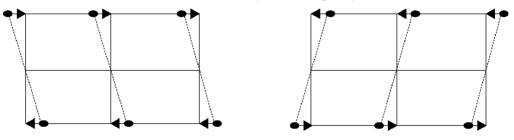


Fig.J: SKEW(V)

#### 10.3.2.3. "R-SKEW (H)" adjustment

Push the "TV/AV" buttons, and select the "R-SKEW".Push the "Channel up/down" buttons, and adjust reference line become a horizontal line. (Refer to figure.)

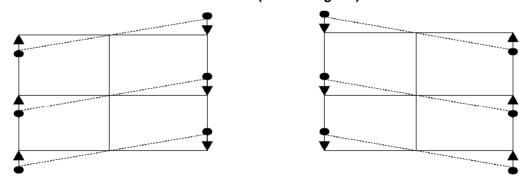


Fig.K: SKEW(H)

#### 10.3.2.4. "R-SIZE (V)" adjustment

Push the "TV/AV" buttons, and select the "R-SIZE".Push the "Channel up/down" buttons, and adjust the upper and lower boarder line of test pattern is aligned with the edge of the screen frame. (Refer to Fig. A.)

10.3.2.5. "R-SIZE (H)" adjustment

Push the "TV/AV" buttons, and select the "R-SIZE". Push the "Volume up/down" buttons, and

adjust the boarder line on either side of test pattern is aligned with the edge of the screen frame. (Refer to Fig. B.)

10.3.2.6. "R-LINEAR" adjustment

Push the "TV/AV" buttons, and select the "R-LINEAR".Push the "Volume up/down" buttons, and adjust the "R-LINEAR". (Refer to Fig. C.)

10.3.2.7. "R-PIN (V)" adjustment

Push the "TV/AV" buttons, and select the "R-PIN".Push the "Channel up/down" buttons, and adjust the "R-PIN (V)". (Refer to Fig. D.)

10.3.2.8. "R-PIN (H)" adjustment

Push the "TV/AV" buttons, and select the "R-PIN".Push the "Volume up/down" buttons, and adjust the "R-PIN (H)". (Refer to Fig. E.)

10.3.2.9. "R-CORNER" adjustment

Push the "TV/AV" buttons, and select the "R-CORNER".Push the "Channel up/down" buttons, and adjust the "R-CORNER". (Refer to Fig. F.)

10.3.2.10. "R-KEY" adjustment

Push the "TV/AV" buttons, and select the "R-KEY". Push the "Channel up/down" buttons, and adjust the "R-KEY". (Refer to Fig. G.)

10.3.2.11. "R-STATIC" adjustment

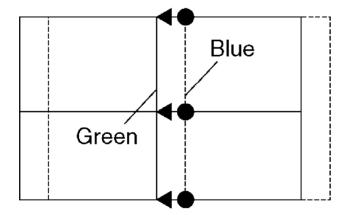
Push the "TV/AV" buttons, and select the "R-STATIC.Push the "Channel/Volume up/down" buttons, and adjust "R-STATIC" so that Horizontal & Vertical Center line is aligned with the bump in the screen center mark.(Refer to Fig. H.)

#### 10.3.3. Blue Coarse Convergence Adjustment

**10.3.3.1.** Reparation

Push the "SOUND" button, and select the Blue Adjustment mode. Push the "2" button, and select the "Border and Cross" pattern. Push the "MUTE" button, and select the "Cyan" colour. Push the "POSITION" button, and adjust the "B-STATIC" so that the Bluecolor of pattern is aligned with Green colour of pattern.





Border and Cross

Fig.L: B-STATIC

10.3.3.2. "B-SKEW (V)" adjustment

Push the "TV/AV" buttons, and select the "B-SKEW".Push the "Volume up/down" buttons, and adjust the reference line become a vertical line. (Refer to Fig. J.)

10.3.3.3. "B-SKEW (H)" adjustment

Push the "TV/AV" buttons, and select the "B-SKEW".Push the "Channel up/down" buttons, and adjust reference line become a horizontal line. (Refer to Fig.K.)

10.3.3.4. "B-SIZE (V)" adjustment

Push the "TV/AV" buttons, and select the "B-SIZE".Push the "Channel up/down" buttons, and adjust the upper and lower boarder line of test pattern is aligned with the edge of the screen frame. (Refer to Fig. A.)

10.3.3.5. "B-SIZE (H)" adjustment

Push the "TV/AV" buttons, and select the "B-SIZE".Push the "Volume up/down" buttons, and adjust the boarder line on either side of test pattern is aligned with the edge of the screen frame. (Refer to Fig. B.)

10.3.3.6. "B-LINEAR" adjustment

Push the "TV/AV" buttons, and select the "B-LINEAR".Push the "Volume up/down" buttons, and adjust the "B-LINEAR". (Refer to Fig. C.)

10.3.3.7. "B-PIN (V)" adjustment

Push the "TV/AV" buttons, and select the "B-PIN".Push the "Channel up/down" buttons, and adjust the "B-PIN (V)" (Refer to Fig. D.)

10.3.3.8. "B-PIN (H)" adjustment

Push the "TV/AV" buttons, and select the "B-PIN".Push the "Volume up/down" buttons, and adjust the "B-PIN (H)". (Refer to Fig. E.)

10.3.3.9. "B-CORNER" adjustment

Push the "TV/AV" buttons, and select the "B-CORNER".Push the "Channel up/down" buttons, and adjust the "B-CORNER". (Refer to Fig. F.)

10.3.3.10. "B-KEY" adjustment

Push the "TV/AV" buttons, and select the "B-KEY".Push the "Channel up/down" buttons, and adjust the "B-KEY". (Refer to Fig. G.)

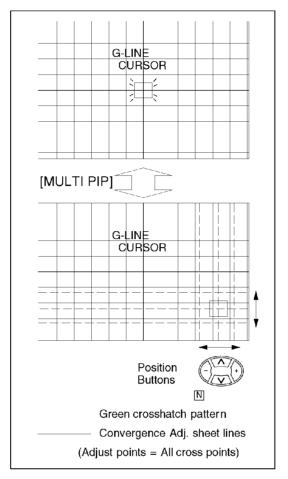
10.3.3.11. "B-STATIC" adjustment

Push the "TV/AV" buttons, and select the "B-STATIC.Push the "Channel/Volume up/down" buttons, and adjust "B-STATIC" so that Horizontal & Vertical Center line is aligned with the bump in the screen center mark.(Refer to Fig. H.)

#### **10.4. Fine Convergence Adjustment**

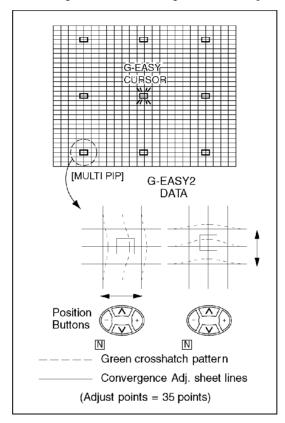
#### 10.4.1. Green Convergence Adjustment

1. Select the "G-LINE CURSOR" mode by pushing "TV/AV" button on the remote control

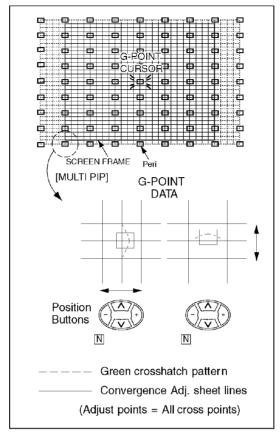


- 2. Use the Position Buttons to move the cursor to the point where you wish to change the data (adjustment lines). Then use the "MULTI PIP" to change from "G-LINE CURSOR" to "G-LINE DATA".
- 3. Use the Position Buttons to adjust each point (line) so that the Green Crosshatch Pattern is aligned with the vertical and horizontal lines of the Convergence Adjustment Sheet.
- 4. Push the "MULTI PIP" and switch from "G-LINE DATA" to "G-LINE CURSOR".
- 5. Repeat step 21~23 to adjust the vertical lines (13) and the horizontal lines (9).
- 6. Select the "G-EASY CURSOR" mode by pushing "TV/AV" button on the remote control.
- 7. Use the Position Buttons to move the cursor to the point where you wish to change the data (adjustment point). Then use the "MULTI PIP" to change from "G-EASY CURSOR" to "G-EASY DATA".

- 8. Use the Position Buttons to adjust each point so that the Green Crosshatch Pattern is aligned with the vertical and horizontal lines of the Convergence Adjustment Sheet.
- 9. Push the "MULTI PIP" and with from "G-EASY DATA" to "G-EASY CURSOR".
- 10. Repeat step 7~9 to adjust the 9 adjustment points.



- 11. Select the "G-POINT CURSOR" mode by pushing "TV/AV" button on the remote control.
- 12. Use the Position Buttons to move the cursor to the point where you wish to change the data (adjustment lines). Then use the "MULTI PIP" to change from "G-LINE CURSOR" to "G-LINE DATA".
- 13. Use the Position Buttons to adjust each point so that the Green Crosshatch Pattern is aligned with the vertical and horizontal lines of the Convergence Adjustment Sheet.
- 14. Push the "MULTI PIP" and switch from "G-POINT DATA" to "G-POINT CURSOR".
- 15. Repeat step 12-14 to adjust all of adjustment points.



16. Adjust the LINE, EASY and POINT DATA again viewing all over the screen.

If need the adjustment at the around of screen, select the "ORIGINAL" and adjust it.

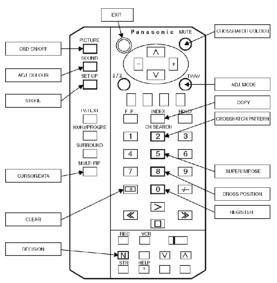
- 17. To store the data after the Green Convergence Adjustment has been completed, push the "MAIN MENU" button and then push the "N" button (pushing the "N" button will store the data in the E<sup>2</sup> PROM).
- 18. Remove the Convergence Adjustment Sheet from the screen.

#### 10.4.2. Red Convergence Adjustment

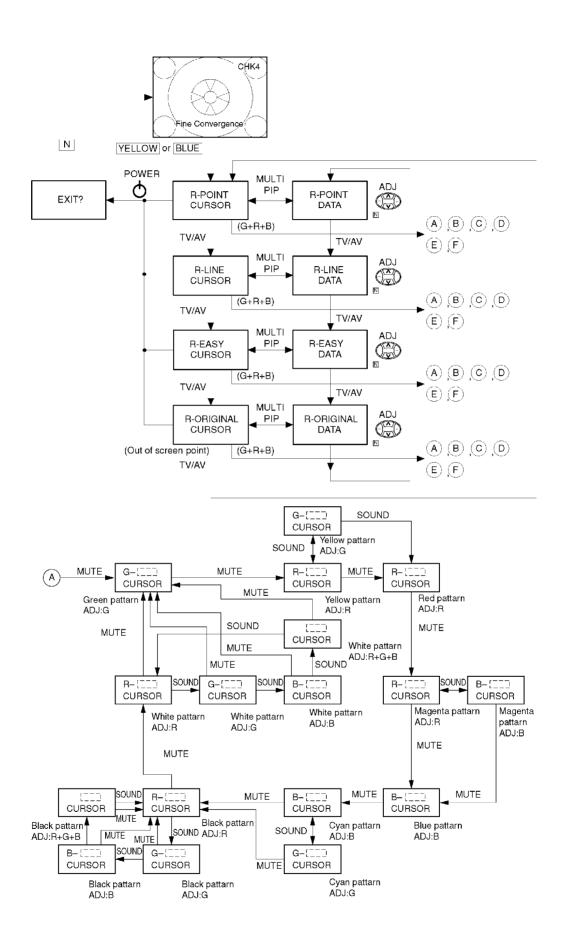
- 1. Push the "MUTE" button twice and change to the Red Adjustment of Yellow Colour.
- 2. Repeat the same steps described for the Green Conv.Adj. in 1~16 to perform the Red Convergence Adjustment.
- 3. To store the data after the Red Convergence Adjustment has been completed, push the "MAIN MENU" button and then the "N" button.

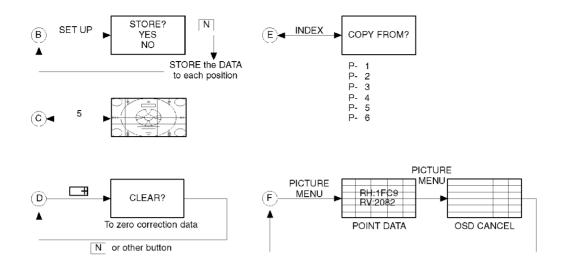
#### 10.4.3. Blue Convergence Adjustment

- 1. Push the "MUTE" button twice and change to the Blue Adjustment of cyan Colour.
- 2. Repeat the same steps described for the Green Conv.Adj. in 1~16 to perform the Blue Convergence Adjustment.
- 3. To store the data after the Blue Convergence Adjustment has been completed, push the "MAIN MENU" button and then push the "N" button.
- 4. To switch from the Convergence Adjustment Mode to the Service Mode, press the Power button and then push the "N" button. Repeat the same adjustment after inputting the 60Hz (NTSC) signal.



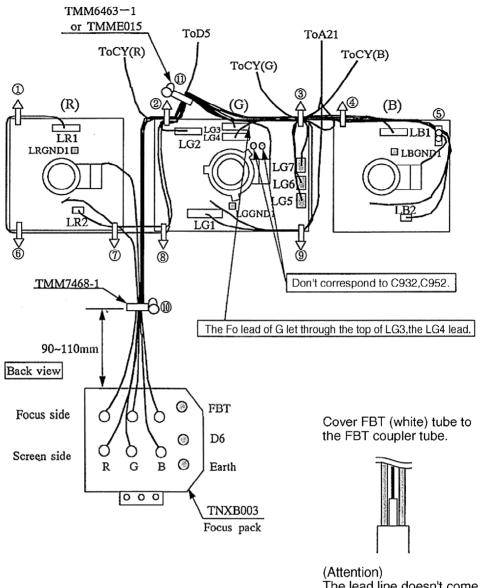
**Fine Convergence Control Chart** 





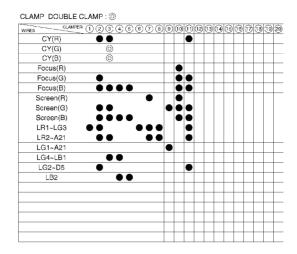
## 11. Location of Lead Wiring

## 11.1. Location of Lead Wiring (1)



(Attention)
The lead line doesn't come within 5 millimeters of the neightborhood of the focus block,too.

INSERTION OF CONNECTOR LR1, LR2, LG1, LG2, LG3, LG4, LG5, LG6, LG7, LB1, LB2, LRGND1, LGGND1, LBGND1



#### NOTICE FOR WORE DRESSING

- 1. Confirm that the lead line isn't hitting the metallic part of the neck print after CRT neck print (R, G, B) insertion.
- 2. It decides to be permitted to insert the lead line (R, G, B) of the VM coil wherever of LG5, LG6, LG7 of the LG print.
- 3. It decides to be permitted to insert G, B of the DY lead in either.

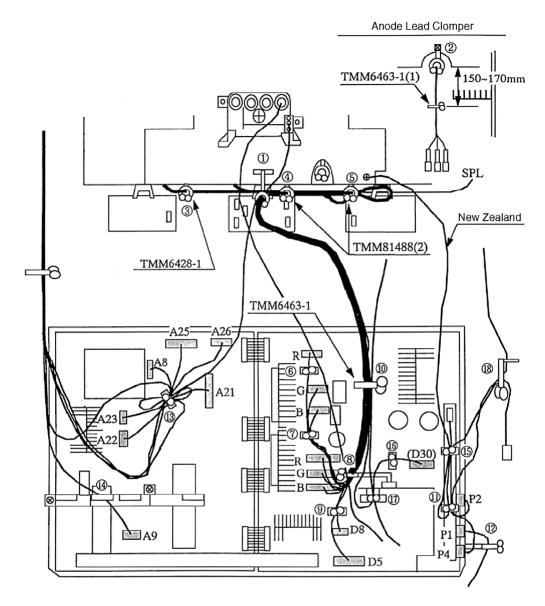
## 11.2. Location of Lead Wiring (2)

#### The Anode Lead

- 1. It inserts Anode lead tip in the back to FBT (the fly background transformer), and it makes turn on the right and it locks it. (Three insertion positions are free).
- 2. Secure a safe space distance from the circumference part by equal to or more than 10 millimeters.

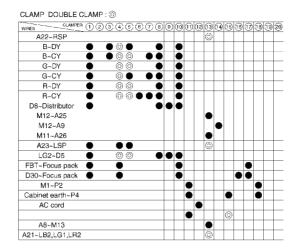
#### **Attention**

- 1. There is not sagging in Clamper (19)-the D30 coupler pipe.
- 2. Drink a lead between P Prix metal fittings-the optical metal fittings in the New Zealand turning and use it.



#### **INSERTION OF CONNECTOR**

A9, A21, A22, A23, A25, A26, Anode distributor (R, G, B, FBT), D5, DY (R, G, B), CY (R, G, B), D30, P1, P2, P4, Focus pack (Red)



#### **NOTICE FOR WIRE DRESSING**

1. After insert R, G, B on CRT-print, confirm that wire should not touch to material parts of CRT-print.

## 12. Conductor Views

- 12.1. A-Board
- 12.2. **D-Board**
- 12.3. DG-Board
- 12.4. H-Board
- 12.5. LB-Board and LR-Board
- 12.6. LG-Board and M-Board
- 12.7. P-Board
- 12.8. U-Board

## 13. Block Diagram

- 13.1. Audio Block Diagram
- 13.2. Video Block Diagram
- 13.3. Power Block Diagram

#### 13.4. Control Block Diagram

## 14. Schematic Diagram

### 14.1. Schematic Diagram Notes

	Important Safety Notice —————						
	Components identified by $\Delta$ mark have special characteristics important for safety. When replacing any of these components, use only manufacture's specified parts.						
Notes:							
1. Res	istor						
	esistors are cabon 1/4W resistor, unless	marked as foll	lows:				
	of resistance is OHM [Ω] (K=1,000, M=1						
	: Nonflammable	A	: Metal Oxide				
	∴ : Solid	ő	: Metal Film				
	: Wire Wound	ã	: Fuse:				
2. Cap	acitor	_					
Allo	apacitors are ceramic 50V capacitor, unle	ess marked as	follows:				
Unit	of capacitance is uF, unless otherwise ne	oted.					
		—14 <u>—</u>	: Electrolytic				
		Nº [S]	; Bipolar				
		6	: Dipped Tantalum				
		ø	Z-Type				
3. Coil		•					
	of inductance is uF, unless otherwise no	ted					
4. Test		icu.					
4. 103	○ : Test Point position						
5 Fort	h Symbol						
o. Luit	# : Chassis Earth (Cold)	4	: Line Earth (Hot)				
6 Volt	age Measurement	♦	. Ellio Editif (Flot)				
	age is measured by a DC voltmeter.						
	ditions of the measurement are the follow	éna:					
COII	Power Source						
	TX-43/51P250HM/HQ/HZ.T0		C 220V 240V E0/80Ub				
	TX-43/51P250X		C 110V-240V. 50/60Hz				
	Receiving Signal	: 2	C-leve Decelement/DD				
	All customer's controls						
7	nber in red circle indicates waveform nem		waximum positions				
		Del.					
	e waveform pattern table.) en arrow mark ( 🗡) is found, connection i		form the discretion of course				
O. WITE	en arrow mark ( 🎤 ) is lound, connection i	s easily lound	from the direction of alrow				
O India	cates the major signal flow. : Video	- A.	ıdio ⇔				
	schematic diagram is the latest at the tin						
notic		ie or printing a	and subject to charge without				
notic	DB.						
Remarks:	:						
1. The	Power Circuit contains a circuit area which	th uses a sepa	arate power supply to isolate the				
eart	h connection.						
The	circuit is defined by HOT and COLD indic	ations in the	schematic diagram. Take the				
	ving precautions.						
	ircuits, except the Power Circuit, are cold						
	autions						
	a. Do not touch the hot part or the	hot and cold r	parts at the same time or you may				
	be shocked.		,				
	b. Do not short- circuit the hot and	cold circuits o	or a fuse may blow and narts may				
	break	u onculto c	may are and parts may				
	c. Do not connect an instrument, s	uch as an osc	illoscope, to the hot and cold				
	circuits simultaneously or a fuse						
	Connect the earth of instrument		connection of the circuit being				
	measured measured	a come earth	CONTROLLOR OF CHECKED BRIDG				
	d. Make sure to disconnect the por	var niva hafa	to removing the abossis				
0 5-11	<ul> <li>d. Make sure to disconnect the po- owing diodes are interchangeable.</li> </ul>	uer hind betor	re removing the chassis.				
∠. FOII0							
	MA150- MA162 (Replacement part)						

- 14.2. A-Board (1 of 4) Schematic Diagram
- 14.3. A-Board (2 of 4) Schematic Diagram
- 14.4. A-Board (3 of 4) Schematic Diagram
- 14.5. A-Board (4 of 4) Schematic Diagram
- 14.6. D-Board (1 of 2) Schematic Diagram
- 14.7. D-Board (2 of 2) Schematic Diagram
- 14.8. DG-Board (1 of 2) Schematic Diagram
- 14.9. DG-Board (2 of 2) Schematic Diagram
- 14.10. H-Board Schematic Diagram
- 14.11. LG-Board Schematic Diagram
- 14.12. LB and LR-Board Schematic Diagram

## 14.13. M-Board Schematic Diagram

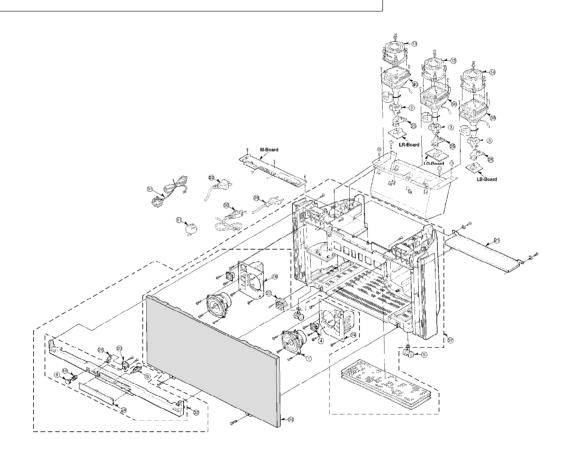
## 14.14. P-Board Schematic Diagram

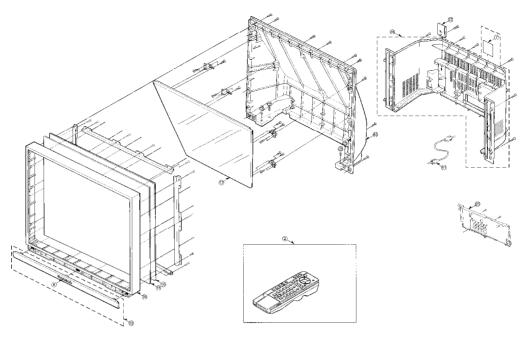
## 14.15. U-Board Schematic Diagram

## 15. Parts location

#### Note:

The number on mechanical parts indicates Ref. No. Mechanical Replacement Parts List





# 16. Mechanical Replacement Parts List

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	EAS14P125A0	SPEAKER	2	43 INCH MODELS
1	L0AA13A00001	SPEAKER(WOOFER)	2	51 INCH MODELS
2	EUR511250	REMOTE CONTROLLER	1	TX-43/51P250HM/HQ/HZ/X
2	EUR511251	REMOTE CONTROLLER	1	TC-43/51P250H
<u>3</u>	G0F100000004	DEFLECTION YOKE	3	Δ
	KFT7CP336F	HIGH VOLTAGE DIVISION	1	⚠
<u>4</u>	EAST6PH12A6	SPEAKER (TWEETER)	2	51 INCH MODELS
<u>5</u>	TBLB0010	CASTER	4	
<u>6</u>	TBMA071	PANASONIC BADGE	1	
<u>7</u>	TBME401	MODEL NAME PLATE	1	TX-51P250HM 📤
7	TBME406	MODEL NAME PLATE	1	ТХ-43Р250НМ ⚠
7	TBME408	MODEL NAME PLATE	1	TX-51P250HQ/HZ
7	TBME410	MODEL NAME PLATE	1	TX-51P250X 🛆
7	TBME411	MODEL NAME PLATE	1	TC-51P250H △
7	TBME412	MODEL NAME PLATE	1	TX-43P250HQ/HZ
7	TBME414	MODEL NAME PLATE	1	TX-43P250X 🛆
7	TBME415	MODEL NAME PLATE	1	тс-43Р250Н ⚠
<u>8</u>	TBXA33501	POWER BUTTON	1	43 INCH MODELS
8	TBXA33502	POWER BUTTON	1	51 INCH MODELS
<u>9</u>	TEK6940	DOOR SWITCH	1	
	TEKC011	DAMPER	1	
	TES6583	SPRING FOR TR	2	
<u>10</u>	TESA031	SPRING	1	
	THT1062	SCREW	6	
	THTA006Z	SCREW	33	
<u>11</u>	TJS2A8420	AC ADAPTOR	1	TX-43/51P250X
12	TKGF0007	LENS (G)	1	51 INCH MODELS

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
<u>13</u>	TKGF0013	LENS (R)	1	51 INCH MODELS
14	TKGF0014	LENS (B)	1	51 INCH MODELS
13	TKGF0024	LENS (R)	1	43 INCH MODELS
12	TKGF0025	LENS (G)	1	43 INCH MODELS
14	TKGF0026	LENS (B)	1	43 INCH MODELS
<u>15</u>	TKGH5052	SCREEN (L)	1	51 INCH MODELS
16	TKGH5053	SCREEN (F)	1	51 INCH MODELS
15	TKGH5055	SCREEN (L)	1	43 INCH MODELS
16	TKGH5056	SCREEN (F)	1	43 INCH MODELS
<u>17</u>	TKGJ5019-1	MIRROR	1	51 INCH MODELS
17	TKGJ5020	MIRROR	1	43 INCH MODELS
<u>18</u>	TKJC005	SPEAKER BORAD (LEFT)	1	43 INCH MODELS
19	TKJC006	SPEAKER BORAD (RGHIT)	1	43 INCH MODELS
18	TKJC007	SPEAKER BORAD (LEFT)	1	51 INCH MODELS
19	TKJC008	SPEAKER BORAD (RGHIT)	1	51 INCH MODELS
20	TKKC5126	REMOCON RECEIVER PANEL	1	
<u>21</u>	TKKF5046-1	COVER	1	
<u> </u>	TKKH5040-1	COVER	2	
<u>22</u>	TKKL5088	AC CORD COVER	1	
	TKP0AA4301			
<u>23</u>	TKP0AA4301	REAR TERMINAL BOARD FRONT DOOR	1	
<u>24</u>	111111111111		1	
<u>25</u>	TLHX015	R/G/B COIL	3	
	TMK15943	INSULATOR	1	
	TMK15945	INSULATOR	1	
	TMM14444	CLAMPER	1	
	TMM16452	CLAMPER	6	
	TMM16452	CLAMPER	1	
	TMM16473-1	CLAMPER	4	
	TMM16473-1	CLAMPER	1	
	TMM16480-1	CLAMPER	1	
	TMM16480-1	CLAMPER	2	
	TMM16497-1	CLAMPER	8	
	TMM3565	RUBBER CAP	4	
	TMM6463-1	CLAMPER	6	
	TMM7464-2	CLAMPER	4	
	TMM7468-1	CLAMPER	1	
	TMM76403-1	CLAMPER	1	51 INCH MODELS
	TMM76430-1	CLAMPER	2	
	TMME047	CLAMPER	1	
	TMMX016	CLAMPER	1	
	TMMX027-2	HOLDER	1	
	TMW0A706-1	PC SUPORT	1	
<u>26</u>	TMWJ017	LED HOLDER	1	
<u>27</u>	TNXB003	FOCUS VR BLOCK	1	D9ZZ00000075 🕭
	TPCA79412	CARTON BOX	1	TX-51P250HM
	TPCA79413	CARTON BOX	1	TX-51P250HQ
	TPCA79414	CARTON BOX	1	TX-51P250HZ
	TPCA79415	CARTON BOX	1	TX-51P250X
	TPCA79416	CARTON BOX	1	TC-51P250H
	TPCA79501	BOTTOM CARTON	1	51 INCH MODELS
	TPCA87506	CARTON BOX	1	TX-43P250HM
	TPCA87507	CARTON BOX	1	TX-43P250HQ
	TPCA87508	CARTON BOX	1	TX-43P250HZ
	i i	1	I	1

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	TPCA87510	CARTON BOX	1	TC-43P250H
	TPCA87601	CARTON BOX(BOTTOM)	1	43 INCH MODELS
	TPD169487	JOINT	4	
	TPD169564	JOINT	2	
	TPDA0359-1	CUSHION(UPPER)	1	51 INCH MODELS
	TPDA0360-1	CUSHION(BOTTOM)	1	51 INCH MODELS
	TPDA0361	CUSHION (TOP)	1	51 INCH MODELS
	TPDA0362-1	CUSHION (FRONT)	1	51 INCH MODELS
	TPDA0363-1	CUSHION (REAR)	1	51 INCH MODELS
	TPDA0363-1	CUSHION (REAR)	1	43 INCH MODELS
		, ,	-	
	TPDA0390	CUSHION(BOTTOM)	1	43 INCH MODELS
	TPDA0391	CUSHION(FRONT)	1	43 INCH MODELS
	TPDA0392	CUSHION(REAR)	1	43 INCH MODELS
	TPDF0199	CUSHION	2	51 INCH MODELS
	TPDF0416	CUSHION (TOP)	1	51 INCH MODELS
	TPDF0451	CUSHION(TOP)	1	43 INCH MODELS
	TPDF0844	CUSHION	2	43 INCH MODELS
	TPEH090	PROTECT COVER	1	
	TPEH132-1	SET COVER	1	
	TQBC0279-1	INSTRUCTION BOOK(ENGLISH)	1	
	TQBC0280	INSTRUCTION BOOK(CHINA)	1	
	TQBC0281-1	INSTRUCTION BOOK(ARABIC)	1	
<u>28</u>	TSX1495	AC POWER CORD	1	TX-43/51P250HQ/HZ
<u>29</u>	TSX5132-2	AC POWER CORD	1	TX-43/51P250HM 🕭
<u>30</u>	TSX5134-3	AC POWER CORD	1	TX-43/51P250X 🗥
<u>31</u>	TSXA106	AC POWER CORD	1	TC-43/51P250H 🕭
<u>32</u>	TTPA0209	CONTROL PANEL	1	51 INCH MODELS
<u>33</u>	TTPA0210	ORNAMENT PANEL	1	TX-51P250HM/HQ/HZ
<u>34</u>	TTPA0211	SPEAKER GRILLE	1	51 INCH MODELS
32	TTPA0212	CONTROL PANEL	1	43 INCH MODELS
33	TTPA0213	ORNAMENT PANEL	1	TX-43P250HM/HQ/HZ
34	TTPA0214	SPEAKER GRILL	1	43 INCH MODELS
33	TTPA0217	ORNAMENT PANEL	1	TX-51P250X
33	TTPA0218	ORNAMENT PANEL	1	TC-51P250H
33	TTPA0222	ORNAMENT PANEL	1	TX-43P250X
33	TTPA0223	ORNAMENT PANEL	1	TC-43P250H
<u>42</u>	TTUA0342-1	REAR COVER(TOP)	1	51 INCH MODELS
42	TTUA0358	REAR COVER (TOP)	1	43 INCH MODELS
3 <u>5</u>	TTUA0452	REAR COVER(BOTTOM)	1	TX-51P250HM
35	TTUA0453	REAR COVER (BOTTOM)	1	TX-43P250HM
35 35	TTUA0454	REAR COVER (BOTTOM)	1	TX-51P250HQ/HZ
35		REAR COVER(BOTTOM)	1	
	TTUA0456	, ,		TX-51P250X
35	TTUA0457	REAR COVER (BOTTOM)	1	TC-51P250H
35	TTUA0458	REAR COVER (BOTTOM)	1	TX-43P250HQ/HZ
35	TTUA0460	REAR COVER (BOTTOM)	1	TX-43P250X
35	TTUA0461	REAR COVER (BOTTOM)	1	TC-43P250H
<u>36</u>	TTYA0368	CABINET (TOP)	1	51 INCH MODELS
36	TTYA0394	CABINET (TOP)	1	43 INCH MODELS
3 <u>7</u>	TTYA0479	CABINET (BOTTOM)	1	51 INCH MODELS
37	TTYA0481	CABINET (BOTTOM)	1	43 INCH MODELS
	TUA0A0500-1	CHASSIS FRAME	1	
<u>38</u>	TVVAB10GAV	PICTURE TUBE (B)	1	51 INCH MODELS
38	TVVAB10GLV	PICTURE TUBE (B)	1	43 INCH MODELS

	1			1
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
<u>39</u>	TVVAG10GAV	PICTURE TUBE (G)	1	51 INCH MODELS
39	TVVAG10GLV	PICTURE TUBE (G)	1	43 INCH MODELS
<u>40</u>	TVVAR10GAV	PICTURE TUBE (R)	1	51 INCH MODELS
40	TVVAR10GLV	PICTURE TUBE (R)	1	43 INCH MODELS
<u>41</u>	TXAJS02ZEH	IF CABLE	1	
	XTB4+10J	SCREW	11	
	XTB4+12A	SCREW	3	
	XTB4+15A	SCREW	6	
	XTBT964	SCREW	35	
	XTV3+10J	SCREW	8	
	XTV3+12A	SCREW	8	
	XTV3+12G	SCREW	5	
	XTV3+12GFZ	SCREW	3	
	XTV3+6J	SCREW	2	
	XTW3+10T	SCREW	30	
	XTW3+8T	SCREW	2	
	XTW4+Z15D	SCREW	6	
	XWC8B	WASHER	1	
	XYN3+C8	SCREW	1	
	XYN3+F10	SCREW	2	
	XYN3+F12	SCREW	2	
	XYN3+F16	SCREW	4	
	XYN3+F8	SCREW	1	
	XYN3+J8	SCREW	20	
	XYN4+F14	SCREW	12	
	XYN5+F16	SCREW	12	
	XZBT6506	POLY BAG	1	

# 17. Electrical Replacement Parts List

## 17.1. Replacement Parts List Notes

#### **Important Safety Notice**

Components identified by Amark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

#### RTL (Retention Time Limited)

Note: The marking (RTL) indicates that the Retention Time is Limited for this item.

After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention.

After the end of this period, the assembly will no longer be available.

Abbreviation of part name and description

1. Resistor2. CapacitorExample:Example:

ERD25TJ104 C 100KOHM, J, 1/4W ECKF1H103ZF C 0.01UF, Z, 50V

Type Allowance Type Allowance

Туре	Allowance		
C: Carbon F: Fuse M: Metal Oxide Metal FIlm S: Solid W: Wire Wound	F:±1% G:±2% J:±5% K:±10% M:±20%		

Туре	Allowance
C : Ceramic E : Electrolytic P : Polyester Polyprop lene T : Tantalum	C: ±0.25pF D: ±0.5pF F: ±1pF G: ±3pF J: ±5pF K: ±10pF L: ±15pF M: ±20pF P: +100%, -0% Z: +80%, -20%

## 17.2. Electrical Replacement Parts List

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
•	01	**CM NOTHING**	1	(RTL)
	01	**CM NOTHING**	1	(RTL)
A1-A3	TJSF19916	16P CONNECTOR	3	K1KA16A00119
A4	TJS1A8150	9P CONNECTOR	1	K1KA09B00019
A5	TJS3A9640	3P CONNECTOR	1	K1KA03A00171
A6	TJSF19916	16P CONNECTOR	1	K1KA16A00119
A8	TJS3A9680	7P CONNECTOR	1	K1KA07A00095
A9	TJS3A9650	4P CONNECTOR	1	K1KA04A00194
A10,11	TJSF17325	25P CONNECTOR	2	K1KB25B00006
A17	TJS3A9640	3P CONNECTOR	1	K1KA03A00171
A21	TJS3A9910	11P CONNECTOR	1	K1KA11A00059
A22	TJS3A9640	3P CONNECTOR	1	K1KA03A00171 43 INCH MODEL
A22	TJS3A9660	5P CONNECTOR	1	K1KA05A00138 51 INCH MODEL
A23	TJS3A9650	4P CONNECTOR	1	K1KA04A00194
A25	TJS3A9880	8P CONNECTOR	1	K1KA08A00179
A26	TJS3A9660	5P CONNECTOR	1	K1KA05A00138
A31	TJS3A9640	3P CONNECTOR	1	K1KA03A00171
A44	TJSF57570	70P CONNECTOR	1	
A1101,02	K1KA30A00128	30P CONNECTOR	2	
C001	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C002	ECA1HM100	E 10UF, 50V	1	
C003	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C008	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C012	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C013	ECA0JM102	E 1000UF, 6.3V	1	
C014	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C018	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C020	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C022,23	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C024	ECA1CM101	E 100UF, 16V	1	
C025	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
C026	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C051	ECEA1HN010U	E 1UF, 50V	1	
C057	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C062,63	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C064	ECA1HM100	E 10UF, 50V	1	
C068	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C069	ECA1CHG101	E 100UF, 16V	1	
C070	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C071	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C081	ECJ2VB1H273K	C 0.027UF, K, 50V	1	
C351	ECA2EM100	E 10UF, 250V	1	
C353	ECKD2H103PU	C 0.01UF, P,500V	1	
C356	ECKD3D102KBN	C 1000PF, K, 2KV	1	
C357	ECQB1H104KF	P 0.1UF, K, 50V	1	
C360	ECA1VM470	E 47UF, 35V	1	
C361	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C364	ECA1VM470	E 47UF, 35V	1	
C365	ECA2EM470	E 47UF, 250V	1	

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Ref. No.         Part No.         Part Name & Description           C371         ECA2EM100         E 10UF, 250V           C373         ECKD2H103PU         C 0.01UF, P,500V           C374         ECKF1H103ZF         C 0.01UF, Z, 50V           C376         ECKD3D102KBN         C 1000PF, K, 2KV           C377         ECQB1H104KF         P 0.1UF, K, 50V           C380         ECA1VM470         E 47UF, 35V           C381         ECKF1H103ZF         C 0.01UF, Z, 50V           C391         ECA2EM100         E 10UF, 250V           C393         ECKD2H103PU         C 0.01UF, P,500V           C396         ECKD3D102KBN         C 1000PF, K, 2KV           C397         ECQB1H104KF         P 0.1UF, K, 50V           C451         ECA1VM470         E 47UF, 35V           C452,53         ECA1VM471         E 470UF, 35V           C455         ECBA1CN220U         E 22UF, 16V           C456         ECQB1224KF         P 0.22UF, 100V           C460         ECA1HM100         E 10UF, 50V           C461         ECA1HM102         E 1000UF, 50V           C462         ECQY1H104JM         P 0.1UF, J, 50V           C464         ECJ2XC1H351J         C 470UF, J, 50V <t< th=""><th>1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</th><th>Remarks</th></t<>	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Remarks
C373	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
C374	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
C376 ECKD3D102KBN C 1000PF, K, 2KV C377 ECQB1H104KF P 0.1UF, K, 50V C380 ECA1VM470 E 47UF, 35V C381 ECKF1H103ZF C 0.01UF, Z, 50V C391 ECA2EM100 E 10UF, 250V C393 ECKD2H103PU C 0.01UF, P,500V C396 ECKD3D102KBN C 1000PF, K, 2KV C397 ECQB1H104KF P 0.1UF, K, 50V C451 ECA1VM470 E 47UF, 35V C452,53 ECA1VM471 E 470UF, 35V C455 ECEA1CN220U E 22UF, 16V C460 ECA1HM100 E 10UF, 50V C460 ECA1HM100 E 10UF, 50V C461 ECA1HM102 E 1000UF, 50V C462 ECQV1H104JM P 0.1UF, J, 50V C463 ECJ2VF1H103Z C 0.01UF, Z, 50V C475 ECGSXC1H471J C 470UF, J, 50V C476 ECHS1H102FZ P 1000PF, F, 50V C482 ECA1CM102 E 1000UF, 10V C490 ECJ2VF1H103Z C 0.01UF, Z, 50V C490 ECJ2VF1H103Z C 0.01UF, Z, 50V C490 ECJ2VF1H103Z C 0.01UF, Z, 50V C502 ECA1VM101 E 100UF, 35V C503 ECQV1H104JM P 0.1UF, J, 50V C504 ECKD2H102KB2 C 1000PF, K,500V	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
C377	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
C380         ECA1VM470         E 47UF, 35V           C381         ECKF1H103ZF         C 0.01UF, Z, 50V           C391         ECA2EM100         E 10UF, 250V           C393         ECKD2H103PU         C 0.01UF, P,500V           C396         ECKD3D102KBN         C 1000PF, K, 2KV           C397         ECQB1H104KF         P 0.1UF, K, 50V           C451         ECA1VM470         E 47UF, 35V           C452,53         ECA1VM471         E 470UF, 35V           C455         ECEA1CN220U         E 22UF, 16V           C456         ECQB1224KF         P 0.22UF, 100V           C460         ECA1HM100         E 10UF, 50V           C461         ECA1HM102         E 1000UF, 50V           C462         ECQV1H104JM         P 0.1UF, J, 50V           C463         ECJ2VF1H103Z         C 0.01UF, Z, 50V           C464         ECJ2XC1H471J         C 470UF, J, 50V           C475         ECJ2XC1H51J         C 150PF, J, 50V           C476         ECHS1H102FZ         P 1000PF, F, 50V           C482         ECA1CM102         E 1000UF, 16V           C490         ECJ2VF1H103Z         C 0.01UF, Z, 50V           C502         ECA1VM101         E 100UF, 35V           <	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
C381	1 1 1 1 1 1 2 1 1 1 1 1 1	
C391	1 1 1 1 2 1 1 1 1 1 1	
C393	1 1 1 2 1 1 1 1 1 1	
C396	1 1 2 1 1 1 1 1 1	
C397	1 1 2 1 1 1 1 1 1	
C451	1 2 1 1 1 1 1 1	
C452,53	2 1 1 1 1 1 1 1	
C455         ECEA1CN220U         E 22UF, 16V           C456         ECQB1224KF         P 0.22UF, 100V           C460         ECA1HM100         E 10UF, 50V           C461         ECA1HM102         E 1000UF, 50V           C462         ECQV1H104JM         P 0.1UF, J, 50V           C463         ECJ2VF1H103Z         C 0.01UF, Z, 50V           C464         ECJ2XC1H471J         C 470UF, J, 50V           C475         ECJ2XC1H151J         C 150PF, J, 50V           C476         ECHS1H102FZ         P 1000PF, F, 50V           C482         ECA1CM102         E 1000UF, 16V           C490         ECJ2VF1H103Z         C 0.01UF, Z, 50V           C502         ECA1VM101         E 100UF, 35V           C503         ECQV1H104JM         P 0.1UF, J, 50V           C504         ECKD2H102KB2         C 1000PF, K,500V	1 1 1 1 1 1	
C456 ECQB1224KF P 0.22UF, 100V C460 ECA1HM100 E 10UF, 50V C461 ECA1HM102 E 1000UF, 50V C462 ECQV1H104JM P 0.1UF, J, 50V C463 ECJ2VF1H103Z C 0.01UF, Z, 50V C464 ECJ2XC1H471J C 470UF, J, 50V C475 ECJ2XC1H151J C 150PF, J, 50V C476 ECHS1H102FZ P 1000PF, F, 50V C482 ECA1CM102 E 1000UF, 16V C490 ECJ2VF1H103Z C 0.01UF, Z, 50V C502 ECA1VM101 E 100UF, 35V C503 ECQV1H104JM P 0.1UF, J, 50V C504 ECKD2H102KB2 C 1000PF, K,500V	1 1 1 1 1	
C460	1 1 1 1	
C461         ECA1HM102         E 1000UF, 50V           C462         ECQV1H104JM         P 0.1UF, J, 50V           C463         ECJ2VF1H103Z         C 0.01UF, Z, 50V           C464         ECJ2XC1H471J         C 470UF, J, 50V           C475         ECJ2XC1H151J         C 150PF, J, 50V           C476         ECHS1H102FZ         P 1000PF, F, 50V           C482         ECA1CM102         E 1000UF, 16V           C490         ECJ2VF1H103Z         C 0.01UF, Z, 50V           C502         ECA1VM101         E 100UF, 35V           C503         ECQV1H104JM         P 0.1UF, J, 50V           C504         ECKD2H102KB2         C 1000PF, K,500V	1 1 1 1	
C462       ECQV1H104JM       P 0.1UF, J, 50V         C463       ECJ2VF1H103Z       C 0.01UF, Z, 50V         C464       ECJ2XC1H471J       C 470UF, J, 50V         C475       ECJ2XC1H151J       C 150PF, J, 50V         C476       ECHS1H102FZ       P 1000PF, F, 50V         C482       ECA1CM102       E 1000UF, 16V         C490       ECJ2VF1H103Z       C 0.01UF, Z, 50V         C502       ECA1VM101       E 100UF, 35V         C503       ECQV1H104JM       P 0.1UF, J, 50V         C504       ECKD2H102KB2       C 1000PF, K,500V	1 1 1	
C463	1 1	
C464 ECJ2XC1H471J C 470UF, J, 50V C475 ECJ2XC1H151J C 150PF, J, 50V C476 ECHS1H102FZ P 1000PF, F, 50V C482 ECA1CM102 E 1000UF, 16V C490 ECJ2VF1H103Z C 0.01UF, Z, 50V C502 ECA1VM101 E 100UF, 35V C503 ECQV1H104JM P 0.1UF, J, 50V C504 ECKD2H102KB2 C 1000PF, K,500V	1	
C475 ECJ2XC1H151J C 150PF, J, 50V C476 ECHS1H102FZ P 1000PF, F, 50V C482 ECA1CM102 E 1000UF, 16V C490 ECJ2VF1H103Z C 0.01UF, Z, 50V C502 ECA1VM101 E 100UF, 35V C503 ECQV1H104JM P 0.1UF, J, 50V C504 ECKD2H102KB2 C 1000PF, K,500V		
C476 ECHS1H102FZ P 1000PF, F, 50V  C482 ECA1CM102 E 1000UF, 16V  C490 ECJ2VF1H103Z C 0.01UF, Z, 50V  C502 ECA1VM101 E 100UF, 35V  C503 ECQV1H104JM P 0.1UF, J, 50V  C504 ECKD2H102KB2 C 1000PF, K,500V	1	
C482       ECA1CM102       E 1000UF, 16V         C490       ECJ2VF1H103Z       C 0.01UF, Z, 50V         C502       ECA1VM101       E 100UF, 35V         C503       ECQV1H104JM       P 0.1UF, J, 50V         C504       ECKD2H102KB2       C 1000PF, K,500V		ECUM1H151JCN
C490         ECJ2VF1H103Z         C 0.01UF, Z, 50V           C502         ECA1VM101         E 100UF, 35V           C503         ECQV1H104JM         P 0.1UF, J, 50V           C504         ECKD2H102KB2         C 1000PF, K,500V	1	
C502 ECA1VM101 E 100UF, 35V C503 ECQV1H104JM P 0.1UF, J, 50V C504 ECKD2H102KB2 C 1000PF, K,500V	1	
C503 ECQV1H104JM P 0.1UF, J, 50V C504 ECKD2H102KB2 C 1000PF, K,500V	1	
C504 ECKD2H102KB2 C 1000PF, K,500V	1	
	1	
C505 ECA1HM471 E 470UF. 50V	1	
1 1	1	
C510 ECJ2VF1C104Z C 0.1UF, Z, 16V	1	
C511 ECCD3F181KGE C 270PF, K, 2KV	1	
C512 ECWH20242JVY P 2400PF, J, 2KV	1	
C513 ECQF4153JZ P 0.015UF, J,400V	1	
C514 ECWH20272JVY P 2700PF, J, 2KV	1	
C515 ECWF2474JSR P 0.47UF, J,250V	1	
C516 ECWH20152JVY P 1500PF, J, 2KV	1	
C517,18 ECKD3D152JBP C 1500PF, J, 2KV	2	
C519 ECQB1H393JF P 0.039UF, J, 50V	1	
C520 ECA2EM470 E 47UF, 250V	1	
C521 ECKD2H102KB2 C 1000PF, K,500V	1	
C522 ECA160V33U E 33UF, 160V	1	
C523 ECA1HM470 E 47UF, 50V	1	
C524 ECKD2H392KB2 C 3900PF, K,500V	1	
C525	1	
C526	1	
C531 ECKD2H101KB2 C 100PF, K,500V	1	
C701 ECKD3D271KBP C 270PF, K, 2KV	1	
C702 ECQE2824KF P 0.82UF, J,250V	1	
C702 ECGE2024RF F 0.820F, 3,230V  C704,05 ECGE1106KF P 10UF, K,250V	2	
C802-04	3	Δ.
C805,06 ECQU2A224MN P 0.22UF, M,250V	2	<u>A</u>
C807 ECKCNA332MEB C 3300PF, Z,	1	⚠
C808 ECA1VM221 E 220UF, 35V	1	
C809 ECKCNA332MEB C 3300PF, Z,	1	Δ

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C812	EC0S2EP471BB	E 470UF, 250V	1	ECOS2EP471BB X VERSION
C813	ECKD3D681KBP	C 680PF, K, 2KV	1	
C814	EC0S2EP471BB	E 470UF, 250V	1	ECOS2EP471BB X VERSION
C815	ECKD3D681KBP	C 680PF, K, 2KV	1	
C816,17	ECKCNA471MBB	C 470PF, Z,	2	ECKDNA471MB
C819	ECKD2H681KB2	C 680PF, K,500V	1	LONDIO (17 TIND
C820	EC0S2EP471BB	E 470UF, 250V	1	X VERSION
C820	EC0S2GP221BB	E 220UF, 400V	1	EX X VERSION
C822	EC0S2EP471BB	E 470UF, 250V	1	X VERSION
C822	EC0S2GP221BB	E 220UF, 400V	1	EX X VERSION
C823	ECQF4333JZ	P 0.033UF, J,400V	1	
C829	ECQB1H681JF	P 680PF, J, 50V	1	
C832	ECKD3D102KBP	C 1000PF, K, 2KV	1	
C833	EETHC2C681B	E 680UF, 160V	1	
C837	EEUFC1E272	E 2700UF, 25V	1	
C839	ECKD3A151KBP	C 150PF, K, 1KV	1	
C840	EEUFC1E821	E 820UF, 25V	1	
C841	EEUFC1E272	E 2700UF, 25V	1	
C842	ECKD3A331KBP	C 330PF, K, 1KV	1	
C859	ECA1HM222	E 2200UF, 50V	1	
C860	ECKD2H471KB2	C 470PF, K,500V	1	
C861	ECA1HM102	E 1000UF, 50V	1	
C862	ECA1EM222	E 2200UF, 25V	1	
C863,64	ECKD3A472KBP	C 4700PF, K, 1KV	2	X VERSION
C865,66	ECA2WHG4R7	E 4.7UF, 450V	2	X VERSION
C867	ECQB1H473JF	P 0.047UF, J, 50V	1	X VERSION
C868	ECQE2A473KF	P 0.047UF, K,250V	1	X VERSION
C869	ECA0JM331	E 330UF, 6.3V	1	
C870	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C872	ECA1EM471	E 470UF, 25V	1	
C873	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C874	ECKCNA222MEB	C 2200PF,	1	A
C876	ECJ2VF1H223Z	C 0.022UF, Z, 50V	1	
C878	ECQU2A224MN	P 0.22UF, M,250V	1	X VERSION A
C880	ECA1EM472	E 4700UF, 25V	1	A VERSION —
C883	ECA2WHG100	E 10UF, 450V	1	
C884	ECQV1H104JM	P 0.1UF, J, 50V	1	
C885	ECKF1H101KB	C 100PF, K, 50V	1	
C886	ECCD3D270KGE	C 27PF, K, 2KV	1	
C888	ECKD3A392KBN	C 3900PF, K, 1KV	1	
C889	ECA1CM222	E 2200UF, 16V	1	
C890	ECKD2H102KB2	C 1000PF, K,500V	1	
C891	ECA1CM471	E 470UF, 16V	1	
C893	ECKD3D681KBP	C 680PF, K, 2KV	1	
C894	ECA1VMH470	E 47UF, 35V	1	
C895	ECA1HMH100	E 10UF, 50V	1	
C901	ECEA1CN100U	E 10UF, 16V	1	
C902	ECA1CM101	E 100UF, 16V	1	
C906	ECA1CM101	E 100UF, 16V	1	
C907	ECCF1H121JC	C 120PF, J, 50V	1	ECCF1H121JC4
C910	ECA1HM100	E 10UF, 50V	1	
C911	ECA1CM101	E 100UF, 16V	1	
C920	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
	1	I.		1

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C932	ECA1HM101	E 100UF, 50V	1	
C952	ECA1HM101	E 100UF, 50V	1	
C955	ECQM2103KZ	P 0.01UF, K,200V	1	
C958	ECA2CM100	E 10UF, 160V	1	
C961	ECA2CM100	E 10UF, 160V	1	
C962	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C964	ECA1CM101	E 100UF, 16V	1	
C966	ECA1CM101	E 100UF, 16V	1	
C967	ECA1CM221	E 220UF, 16V	1	
C972	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C973	ECQM2103KZ	P 0.01UF, K,200V	1	
C974	ECA1HM100	E 10UF, 50V	1	
C1014	ECA1CM101		1	
C1014 C1040		E 100UF, 16V	1	
	ECQB1H223JF	P 0.022UF, J, 50V		
C1041	ECA1HM470	E 47UF, 50V	1	
C1043	ECKF1H101KB	C 100PF, K, 50V	1	
C1054	ECCF1H101J	C 100PF, J, 50V	1	
C1101	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1102	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C1103-09	ECJ2VF1C104Z	C 0.1UF, Z, 16V	7	
C1112	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1115	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C1116,17	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C1118	ECJ2XB1H472K	C 4700PF, K, 50V	1	
C1119-29	ECJ2VF1C104Z	C 0.1UF, Z, 16V	11	
C1130	EEVHB0G221	E 220UF, 4V	1	
C1131,32	ECJ2XC1H220J	C 22UF, J, 50V	2	ECUM1H220JCN
C1133-36	ECJ2VF1C104Z	C 0.1UF, Z, 16V	4	
C1137	EEVHB0G221	E 220UF, 4V	1	
C1140	ECJ2XB1E104K	C 0.1UF, K, 25V	1	TX MODEL
C1142	ECJ2XC1H151J	C 150PF, J, 50V	1	ECUM1H151JCN TX MODEL
C1144	ECJ2XG1H101J	C 100PF, J, 50V	1	
C1146	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1147	ECA1CM101	E 100UF, 16V	1	
C1148	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1150,51	ECJ2VB1C104K	C 0.1UF, K, 16V	2	
C1152,53	ECJ2XB1H103K	C 0.01UF, K, 50V	2	
C1154	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1156	ECA1HM100	E 10UF, 50V	1	
C1157,58	TCUY0J335MBM	C 3.3UF, 6.3V	2	F1K0J335A003
C1159,60	EEVHB1C100	E 10UF, 16V	2	
C1161	EEVHB0G221	E 220UF, 4V	1	
C1162	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1163	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C1164	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1165	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1166	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1167	EEVHB1C101P	E 100UF, 16V	1	
C1168	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1170	ECEA1EKN100	E 10UF, 25V	1	
C1251	ECA1CM101	E 100UF, 16V	1	
C1251	ECA1HM100	E 10UF, 50V	1	
C1252 C1253,54	ECJ2VB1C104K	C 0.1UF, K, 16V	2	
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C1255	ECA1VM470	E 47UF, 35V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1290	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1291	ECA1CM471	E 470UF, 16V	1	
C1292,93	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C1294	ECA1CM101	E 100UF, 16V	1	
C1295	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1296	ECA1CM471	E 470UF, 16V	1	
C1300	ECJ1VC1H120J	C 12PF, J, 50V	1	
C1301	ECJ1XC1H151J	C 150PF, J, 50V	1	
C1302	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1303	ECJ1VC1H120J	C 12PF, J, 50V	1	
C1304,05	ECJ1XC1H151J	C 150PF, J, 50V	2	
C1306	ECJ1XC1H680J	C 68PF, J, 50V	1	ECUX1H680JCV
C1308	ECJ1XC1H151J	C 150PF, J, 50V	1	
C1309	ECJ1XC1H181J	C 180PF, J, 50V	1	
C1312	ECJ1XC1H151J	C 150PF, J, 50V	1	
C1313	TACCN0J105KT	C 1UF, 6.3V	1	
C1315	TACCN0J105KT	C 1UF, 6.3V	1	
C1316-18	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C1319	ECJ1XC1H470J	C 47PF, J, 50V	1	
C1320	ECJ1XC1H060D	C 6PF, C, 50V	1	ECUX1H060DCV
C1322-34	ECJ2VF1C105Z	C 1UF, Z, 16V	13	LOCATIOODE
C1322-54	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1336	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C1337-41	ECJ2VF1C105Z	C 1UF, Z, 16V	5	11100000
C1337-41	ECJ1XF1H103Z		1	
C1344-54	ECJ2VF1C105Z	C 111E 7 16V	11	
C1355,56	TCUY0J335MBM	C 1UF, Z, 16V	2	F1K0J335A003
		C 3.3UF, 6.3V		FIROJSSSAUUS
C1357	ECJ1XC1H330J	C 33PF, J, 50V	1	
C1358,59	ECJ1VB1H472K	C 4700PF, K, 50V	2	
C1360	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1361	ECJ1VB1H103K	C 0.01UF, K, 50V	1	EEV/IDO MOAD
C1362	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C1363	ECJ1XC1H102J	C 1000PF, J, 50V	1	ECUX1H102JCV
C1364	ECJ1XC1H680J	C 68PF, J, 50V	1	ECUX1H680JCV
C1365	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1367	TACCN0J105KT	C 1UF, 6.3V	1	
C1370	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1371	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1372	ECJ1XF1H103Z	C 0.01UF, Z, 50V	1	
C1373	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1374	ECJ1VB1H222K	C 2200PF, K, 50V	1	
C1376	ECJ1XC1H680J	C 68PF, J, 50V	1	ECUX1H680JCV
C1377	ECJ1VB1C104K	C 0.1UF, K, 16V	1	
C1378	ECJ1VB1H222K	C 2200PF, K, 50V	1	
C1379	ECJ1VB1C104K	C 0.1UF, K, 16V	1	
C1380	TACCN0J105KT	C 1UF, 6.3V	1	
C1381	ECJ1XC1H330J	C 33PF, J, 50V	1	
C1382	ECJ1XB1C393K	C 0.039UF, K, 16V	1	
C1383	TACCN0J105KT	C 1UF, 6.3V	1	
C1384	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1385	ECJ1XF1H103Z	C 0.01UF, Z, 50V	1	
C1386,87	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C1389	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1390,91	TACCN0J105KT	C 1UF, 6.3V	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1392	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1395	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1396	EEVHB0G221	E 220UF, 4V	1	
C1398,99	ECJ1VC1H120J	C 12PF, J, 50V	2	
C1400	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1401	ECJ1XC1H101J	C 100PF, J, 50V	1	
C1404	ECJ1XC1H151J	C 150PF, J, 50V	1	
C1405	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1411-13	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C1414	ECJ1XC1H470J	C 47PF, J, 50V	1	
C1415	ECJ1XC1H060D	C 6PF, C, 50V	1	ECUX1H060DCV
C1417-41	ECJ2VF1C105Z	C 1UF, Z, 16V	25	
C1442	ECJ1VB1H472K	C 4700PF, K, 50V	1	
C1443	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C1444-47	ECJ2VF1C105Z	C 1UF, Z, 16V	4	THOUSESAUG
C1448	TCUY0J335MBM		1	F1K0J335A003
C1448		C 3.3UF, 6.3V	1	FIROJSSSAUUS
	ECJ1XF1H103Z ECJ2VF1C105Z	C 0.01UF, Z, 50V		
C1450-52		C 1UF, Z, 16V	3	
C1454	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1455-58	ECJ2VB1C104K	C 0.1UF, K, 16V	4	F41/0 1005 4000
C1460	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C1461	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1462	ECJ1VB1H332K	C 3300PF, K, 50V	1	
C1464	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C1465	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C1466	ECJ1XC1H680J	C 68PF, J, 50V	1	ECUX1H680JCV
C1467	ECJ1XC1H330J	C 33PF, J, 50V	1	
C1468-70	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C1471	ECJ1XC1H330J	C 33PF, J, 50V	1	
C1472	ECJ1XC1H680J	C 68PF, J, 50V	1	ECUX1H680JCV
C1473-75	ECJ2VB1C104K	C 0.1UF, K, 16V	3	
C1476	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1477	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C1478	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C1479,80	EEVHP1C100	E 10UF, 16V	2	
C1481,82	TACCN0J105KT	C 1UF, 6.3V	2	
C1483	EEVHP1E4R7	E 4.7UF, 25V	1	
C1484,85	EEVHP1C100	E 10UF, 16V	2	
C1489	TACCN0J105KT	C 1UF, 6.3V	1	
C1493	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C1494,95	EEVHB0G221	E 220UF, 4V	2	
C1496	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C1498	EEVHB0G221	E 220UF, 4V	1	
C1499,00	EEVHB0J101	E 100UF, 6.3V	2	EEVHB0J101P
C1501	EEVHB1C470	E 47UF, 16V	1	
C1502,03	EEVHB0J101	E 100UF, 6.3V	2	EEVHB0J101P
C1505-07	EEVHB0G221	E 220UF, 4V	3	
C1508	EEUFC1A101	E 100UF, 10V	1	
C1510,11	ECJ2VB1C104K	C 0.1UF, K, 16V	2	
C1513-15	ECJ2XB1H103K	C 0.01UF, K, 50V	3	
C1516	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C1544	ECA1CM101	E 100UF, 16V	1	
C1550,51	ECA1CM101	E 100UF, 16V	2	
C1564,65	ECA1HM4R7	E 4.7UF, 50V	2	
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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1566	ECA1HM220	E 22UF, 50V	1	
C1568,69	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C2007	ECJ2XC1H560J	C 56PF, J, 50V	1	ECUM1H560JCN
C2008,09	ECJ2XC1H470J	C 47PF, J, 50V	2	ECUM1H470JCN
C2010	ECJ2XC1H560J	C 56PF, J, 50V	1	ECUM1H560JCN
C2011	ECJ2XC1H070D	C 7PF, D, 50V	1	ECUM1H070DCN
C2014	ECJ2XC1H010C	C 1PF, C, 50V	1	ECUM1H010CCN
C2015	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2016	ECA1CM101	E 100UF, 16V	1	
C2017	ECJ2XC1H010C	C 1PF, C, 50V	1	ECUM1H010CCN
C2024	ECJ3VB1C474K	C 0.47UF, K, 16V	1	
C2025	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2027	ECA1HM100	E 10UF, 50V	1	
C2028	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2029	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C2030	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2031	ECA1CM101	E 100UF, 16V	1	
C2032	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C2032	ECA1HM100	E 10UF, 50V	1	
C2034,35	ECJ2XB1H103K	C 0.01UF, K, 50V	2	
C2034,33	ECJ2VF1C105Z		1	
C2037	ECA1HM100	C 1UF, Z, 16V E 10UF, 50V	1	
C2039			1	
	ECA1CM101	E 100UF, 16V		
C2040	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2041	ECA1HM3R3	E 3.3UF, 50V	1	
C2042-45	ECJ2XB1H102K	C 1000PF, K, 50V	4	
C2224,25	ECEA1HKA100	E 10UF, 50V	2	
C2290	ECEA1HN4R7U	E 4.7UF, 50V	1	
C2291	ECQV1H104JM	P 0.1UF, J, 50V	1	
C2292	ECA0JM222	E 2200UF, 6.3V	1	
C2293	ECA1VM470	E 47UF, 35V	1	
C2294,95	ECA1HM221	E 220UF, 50V	2	
C2296	ECA1CM101	E 100UF, 16V	1	
C2297	ECKF1H472KB	C 4700PF, K, 50V	1	
C2304	ECA1HHG100	E 10UF, 50V	1	
C2305-07	ECA1VM101	E 100UF, 35V	3	
C2308	ECA1HM100	E 10UF, 50V	1	
C2309,10	ECA1VM102	E 1000UF, 35V	2	
C2312	ECQV1H104JM	P 0.1UF, J, 50V	1	
C2313,14	ECQB1H272JF	P 2700PF, J, 50V	2	
C2315	ECA1HM102	E 1000UF, 50V	1	
C2316	ECQV1H104JM	P 0.1UF, J, 50V	1	
C2317	ECA1HM4R7	E 4.7UF, 50V	1	
C2318	ECA1HHG220	E 22UF, 50V	1	
C2319	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C2320	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C2321	ECA1CM471	E 470UF, 16V	1	
C2324	ECJ2XB1H152K	C 1500PF, K, 50V	1	
C2325	ECA1HM4R7	E 4.7UF, 50V	1	
C2326	ECJ2XB1H332K	C 3300PF, K, 50V	1	ECUM1H332KBN
C2327	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C2328	ECJ2XC1H102J	C 1000UF, J, 50V	1	ECUM1H102JCN
C2329	ECJ2XC1H102J	C 1000UF, J, 50V	1	51 INCH MODEL
C2330	ECJ2XC1H102J	C 1000UF, J, 50V	1	ECUM1H102JCN

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C2331	ECJ2XC1H102J	C 1000UF, J, 50V	1	51 INCH MODEL
C2332	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C2333	ECA50YT2R2K	E 2.2UF, 50V	1	51 INCH MODEL
C2334	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C2335	ECA50YT2R2K	E 2.2UF, 50V	1	51 INCH MODEL
C2336	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C2337	ECA1CM470	E 47UF, 16V	1	
C2338,39	ECA1HM221	E 220UF, 50V	2	
C2340	ECA1CM101	E 100UF, 16V	1	
C2341	ECA1HM220	E 22UF, 50V	1	
C2342	ECA1CM101	E 100UF, 16V	1	
C2343	ECA1HM100	E 10UF, 50V	1	
C2344,45	ECJ2XB1H472K	C 4700PF, K, 50V	2	
C2349	ECQV1H105JM	P 1UF, J, 50V	1	
C2351	ECA1CM471		1	
		E 470UF, 16V		
C2352	ECEA1HN2R2U	E 2.2UF, 50V	1	
C2354	ECEA1HN4R7U	E 4.7UF, 50V	1	
C2355	ECQV1H105JM	P 1UF, J, 50V	1	
C2356	ECQV1H104JM	P 0.1UF, J, 50V	1	
C2359	ECA1HM100	E 10UF, 50V	1	
C2372,73	ECEA1HNR33U	E 0.33UF, 50V	2	
C2378	ECA0JM222	E 2200UF, 6.3V	1	
C2379	ECA1CM101	E 100UF, 16V	1	
C2381	ECA1HM010	E 1UF, 50V	1	
C2382	ECKF1H472KB	C 4700PF, K, 50V	1	
C2385	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C2590	ECA1CM471	E 470UF, 16V	1	
C2702	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C2703	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2704	ECA1EM471	E 470UF, 25V	1	
C2707	ECA1CHG471	E 470UF, 16V	1	
C2708	EEUFC1A471	E 470UF, 10V	1	
C2711	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2713	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C2716	EEUFC1A471	E 470UF, 10V	1	
C2719,20	ECA1CM471	E 470UF, 16V	2	
C2722,23	ECJ2VF1H104Z	C 0.1UF, Z, 50V	2	
C2726	ECA1EHG471	E 470UF, 25V	1	
C2730,31	EEUFC1E471	E 470UF, 25V	2	
C2732	EEUFC1A471	E 470UF, 10V	1	
C2733	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C2734	ECA1EM471	E 470UF, 25V	1	
C2737	ECA1CM471	E 470UF, 16V	1	
C2738	ECA1CM101	E 100UF, 16V	1	
C2739	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2740	ECA1CM471	E 470UF, 16V	1	
C2750,51	TACCN0J105KT	C 1UF, 6.3V	2	
C2761			1	
	ECJ2XC1H101J	C 100UF, J, 50V	1	
C3006	ECJ2VF1C104Z	C 0.1UF, Z, 16V		
C3013-17	ECJ2VF1C105Z	C 1UF, Z, 16V	5	
C3018	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C3020	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3021	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C3022,23	ECJ2XB1H103K	C 0.01UF, K, 50V	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3024	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3025	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C3026-29	ECJ2VF1C105Z	C 1UF, Z, 16V	4	
C3030	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C3032,33	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C3034	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3035	ECA1CM101	E 100UF, 16V	1	
C3036	ECA1CM470	E 47UF, 16V	1	
C3037,38	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C3042-45	ECJ2VF1C105Z	C 1UF, Z, 16V	4	
C3046	ECA1CM101	E 100UF, 16V	1	
C3047-49	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C3050	ECA1CM221	E 220UF, 16V	1	
C3051	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3053,54	ECA1HM010	E 1UF, 50V	2	
C3057,58	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C3061-64	ECA1HM100	E 10UF, 50V	4	
C3067	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C3068	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3069	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3070	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C3077,78	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C3079	ECEA1CN470U	E 47UF, 16V	1	
C3080	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C3101-04	ECQB1H563JF	P 0.056UF, J, 50V	4	
C3107-04	ECKF1H561KB	C 560PF, K, 50V	1	
C3107	ECKF1H561KB	C 560PF, K, 50V	1	
63103				
			_	ECHM1H690 ICN
C3112	ECJ2XC1H680J	C 68PF, J, 50V	1	ECUM1H680JCN
C3112 C3113,14	ECJ2XC1H680J ECA1CM470	C 68PF, J, 50V E 47UF, 16V	1 2	ECUM1H680JCN
C3112 C3113,14 C3115	ECJ2XC1H680J ECA1CM470 ECEA1CN470U	C 68PF, J, 50V E 47UF, 16V E 47UF, 16V	1 2 1	ECUM1H680JCN
C3112 C3113,14 C3115 C3301-03	ECJ2XC1H680J ECA1CM470 ECEA1CN470U ECJ2VF1C104Z	C 68PF, J, 50V E 47UF, 16V E 47UF, 16V C 0.1UF, Z, 16V	1 2 1 3	ECUM1H680JCN
C3112 C3113,14 C3115 C3301-03 C3323	ECJ2XC1H680J ECA1CM470 ECEA1CN470U ECJ2VF1C104Z ECA1HHG100	C 68PF, J, 50V E 47UF, 16V E 47UF, 16V C 0.1UF, Z, 16V E 10UF, 50V	1 2 1 3 1	ECUM1H680JCN
C3112 C3113,14 C3115 C3301-03 C3323 C3352	ECJ2XC1H680J ECA1CM470 ECEA1CN470U ECJ2VF1C104Z ECA1HHG100 ECA2AM220	C 68PF, J, 50V E 47UF, 16V E 47UF, 16V C 0.1UF, Z, 16V E 10UF, 50V E 22UF, 160V	1 2 1 3 1 1 1	ECUM1H680JCN
C3112 C3113,14 C3115 C3301-03 C3323 C3352 C3353	ECJ2XC1H680J ECA1CM470 ECEA1CN470U ECJ2VF1C104Z ECA1HHG100 ECA2AM220 ECKF1H103ZF	C 68PF, J, 50V E 47UF, 16V E 47UF, 16V C 0.1UF, Z, 16V E 10UF, 50V E 22UF, 160V C 0.01UF, Z, 50V	1 2 1 3 3 1 1 1 1 1	ECUM1H680JCN
C3112 C3113,14 C3115 C3301-03 C3323 C3352 C3352 C3353	ECJ2XC1H680J ECA1CM470 ECEA1CN470U ECJ2VF1C104Z ECA1HHG100 ECA2AM220 ECKF1H103ZF ECA2AM220	C 68PF, J, 50V  E 47UF, 16V  E 47UF, 16V  C 0.1UF, Z, 16V  E 10UF, 50V  E 22UF, 160V  C 0.01UF, Z, 50V  E 22UF, 160V	1 2 1 3 1 1 1	ECUM1H680JCN
C3112 C3113,14 C3115 C3301-03 C3323 C3352 C3352 C3363	ECJ2XC1H680J ECA1CM470 ECEA1CN470U ECJ2VF1C104Z ECA1HHG100 ECA2AM220 ECKF1H103ZF ECA2AM220 ECKF1H103ZF	C 68PF, J, 50V  E 47UF, 16V  E 47UF, 16V  C 0.1UF, Z, 16V  E 10UF, 50V  E 22UF, 160V  C 0.01UF, Z, 50V  E 22UF, 160V  C 0.01UF, Z, 50V	1 2 1 3 1 1 1 1 1 1 1 1	ECUM1H680JCN
C3112 C3113,14 C3115 C3301-03 C3323 C3352 C3352 C3362 C3363 C3372	ECJ2XC1H680J ECA1CM470 ECEA1CN470U ECJ2VF1C104Z ECA1HHG100 ECA2AM220 ECKF1H103ZF ECA2AM220 ECKF1H103ZF	C 68PF, J, 50V  E 47UF, 16V  E 47UF, 16V  C 0.1UF, Z, 16V  E 10UF, 50V  E 22UF, 160V  C 0.01UF, Z, 50V  E 22UF, 160V  C 0.01UF, Z, 50V  E 22UF, 160V	1 2 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ECUM1H680JCN
C3112 C3113,14 C3115 C3301-03 C3323 C3352 C3353 C3362 C3363 C3372 C3373	ECJ2XC1H680J ECA1CM470 ECEA1CN470U ECJ2VF1C104Z ECA1HHG100 ECA2AM220 ECKF1H103ZF ECA2AM220 ECKF1H103ZF ECA2AM220 ECKF1H103ZF	C 68PF, J, 50V E 47UF, 16V E 47UF, 16V C 0.1UF, Z, 16V E 10UF, 50V E 22UF, 160V C 0.01UF, Z, 50V E 22UF, 160V C 0.01UF, Z, 50V E 22UF, 160V C 0.01UF, Z, 50V	1 2 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ECUM1H680JCN
C3112 C3113,14 C3115 C3301-03 C3323 C3352 C3353 C3362 C3363 C3372 C3373 C3410	ECJ2XC1H680J ECA1CM470 ECEA1CN470U ECJ2VF1C104Z ECA1HHG100 ECA2AM220 ECKF1H103ZF ECA2AM220 ECKF1H103ZF ECA2AM220 ECKF1H103ZF	C 68PF, J, 50V E 47UF, 16V E 47UF, 16V C 0.1UF, Z, 16V E 10UF, 50V E 22UF, 160V C 0.01UF, Z, 50V E 22UF, 160V C 0.01UF, Z, 50V E 22UF, 160V C 0.01UF, Z, 50V C 560PF, J, 50V	1 2 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ECUM1H680JCN
C3112 C3113,14 C3115 C3301-03 C3323 C3352 C3352 C3362 C3363 C3372 C3373 C3410 C3412	ECJ2XC1H680J ECA1CM470 ECEA1CN470U ECJ2VF1C104Z ECA1HHG100 ECA2AM220 ECKF1H103ZF ECA2AM220 ECKF1H103ZF ECA2AM220 ECKF1H103ZF ECA2AM220 ECKF1H103ZF	C 68PF, J, 50V  E 47UF, 16V  E 47UF, 16V  C 0.1UF, Z, 16V  E 10UF, 50V  E 22UF, 160V  C 0.01UF, Z, 50V  E 22UF, 160V  C 0.01UF, Z, 50V  E 22UF, 160V  C 0.01UF, Z, 50V  C 560PF, J, 50V	1 2 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ECUM1H680JCN
C3112 C3113,14 C3115 C3301-03 C3323 C3352 C3352 C3362 C3363 C3372 C3373 C3410 C3412 C3414,15	ECJ2XC1H680J ECA1CM470 ECEA1CN470U ECJ2VF1C104Z ECA1HHG100 ECA2AM220 ECKF1H103ZF ECA2AM220 ECKF1H103ZF ECA2AM220 ECKF1H103ZF ECA2AM220 ECKF1H103ZF ECA2AM210 ECKF1H103ZF ECA2AM220 ECKF1H103ZF	C 68PF, J, 50V  E 47UF, 16V  E 47UF, 16V  C 0.1UF, Z, 16V  E 10UF, 50V  E 22UF, 160V  C 0.01UF, Z, 50V  E 22UF, 160V  C 0.01UF, Z, 50V  E 22UF, 160V  C 0.01UF, Z, 50V  C 560PF, J, 50V  C 560PF, J, 50V	1 2 1 3 1 1 1 1 1 1 1 1 1 2 2	ECUM1H680JCN
C3112 C3113,14 C3115 C3301-03 C3323 C3352 C3352 C3362 C3363 C3372 C3373 C3410 C3412 C3414,15 C3417	ECJ2XC1H680J ECA1CM470 ECEA1CN470U ECJ2VF1C104Z ECA1HHG100 ECA2AM220 ECKF1H103ZF ECA2AM220 ECKF1H103ZF ECA2AM220 ECKF1H103ZF ECA2AM210 ECKF1H103ZF ECA2AM210 ECKF1H103ZF ECJ2XC1H561J ECJ2XC1H561J ECJ2XC1H561J	C 68PF, J, 50V  E 47UF, 16V  E 47UF, 16V  C 0.1UF, Z, 16V  E 10UF, 50V  E 22UF, 160V  C 0.01UF, Z, 50V  E 22UF, 160V  C 0.01UF, Z, 50V  C 22UF, 160V  C 0.01UF, Z, 50V  C 560PF, J, 50V  C 560PF, J, 50V  C 560PF, J, 50V	1 2 1 3 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1	ECUM1H680JCN
C3112 C3113,14 C3115 C3301-03 C3323 C3352 C3352 C3363 C3362 C3372 C3373 C3410 C3412 C3414,15 C3417 C3420	ECJ2XC1H680J ECA1CM470 ECEA1CN470U ECJ2VF1C104Z ECA1HHG100 ECA2AM220 ECKF1H103ZF ECA2AM220 ECKF1H103ZF ECA2AM220 ECKF1H103ZF ECJ2XC1H561J ECJ2XC1H561J ECJ2XC1H561J ECJ2XC1H561J	C 68PF, J, 50V  E 47UF, 16V  E 47UF, 16V  C 0.1UF, Z, 16V  E 10UF, 50V  E 22UF, 160V  C 0.01UF, Z, 50V  E 22UF, 160V  C 0.01UF, Z, 50V  E 22UF, 160V  C 0.01UF, Z, 50V  C 560PF, J, 50V  C 560PF, J, 50V  C 560PF, J, 50V  C 560PF, J, 50V	1 2 1 3 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1	ECUM1H680JCN
C3112 C3113,14 C3115 C3301-03 C3323 C3352 C3352 C3362 C3363 C3372 C3373 C3410 C3412 C3414,15 C3417 C3420 C3422	ECJ2XC1H680J ECA1CM470 ECEA1CN470U ECJ2VF1C104Z ECA1HHG100 ECA2AM220 ECKF1H103ZF ECA2AM220 ECKF1H103ZF ECJ2XC1H561J ECJ2XC1H561J ECJ2XC1H561J ECJ2XC1H561J ECJ2XC1H561J ECJ2XC1H561J	C 68PF, J, 50V  E 47UF, 16V  E 47UF, 16V  C 0.1UF, Z, 16V  E 10UF, 50V  E 22UF, 160V  C 0.01UF, Z, 50V  E 22UF, 160V  C 0.01UF, Z, 50V  E 22UF, 160V  C 0.01UF, Z, 50V  C 560PF, J, 50V	1 2 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ECUM1H680JCN
C3112 C3113,14 C3115 C3301-03 C3323 C3352 C3352 C3362 C3363 C3372 C3373 C3410 C3412 C3414,15 C3417 C3420 C3422 C3424	ECJ2XC1H680J ECA1CM470 ECEA1CN470U ECJ2VF1C104Z ECA1HHG100 ECA2AM220 ECKF1H103ZF ECA2AM220 ECKF1H103ZF ECA2AM220 ECKF1H103ZF ECA2AM210 ECKF1H103ZF ECJ2XC1H561J ECJ2XC1H561J ECJ2XC1H561J ECJ2XC1H561J ECJ2XC1H561J ECJ2XC1H561J	C 68PF, J, 50V E 47UF, 16V E 47UF, 16V C 0.1UF, Z, 16V E 10UF, 50V E 22UF, 160V C 0.01UF, Z, 50V E 22UF, 160V C 0.01UF, Z, 50V E 22UF, 160V C 0.01UF, Z, 50V C 560PF, J, 50V	1 2 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ECUM1H680JCN
C3112 C3113,14 C3115 C3301-03 C3323 C3352 C3352 C3362 C3363 C3372 C3373 C3410 C3412 C3414,15 C3417 C3420 C3422 C3424 C3426	ECJ2XC1H680J ECA1CM470 ECEA1CN470U ECJ2VF1C104Z ECA1HHG100 ECA2AM220 ECKF1H103ZF ECA2AM220 ECKF1H103ZF ECA2AM220 ECKF1H103ZF ECJ2XC1H561J ECJ2XC1H561J ECJ2XC1H561J ECJ2XC1H561J ECJ2XC1H561J ECJ2XC1H561J ECJ2XC1H561J ECJ2XC1H561J	C 68PF, J, 50V E 47UF, 16V E 47UF, 16V C 0.1UF, Z, 16V E 10UF, 50V E 22UF, 160V C 0.01UF, Z, 50V E 22UF, 160V C 0.01UF, Z, 50V E 22UF, 160V C 0.01UF, Z, 50V C 560PF, J, 50V	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ECUM1H680JCN
C3112 C3113,14 C3115 C3301-03 C3323 C3352 C3352 C3363 C3372 C3373 C3410 C3412 C3414,15 C3417 C3420 C3422 C3424 C3426 C3430	ECJ2XC1H680J ECA1CM470 ECEA1CN470U ECJ2VF1C104Z ECA1HHG100 ECA2AM220 ECKF1H103ZF ECA2AM220 ECKF1H103ZF ECA2AM220 ECKF1H103ZF ECJ2XC1H561J ECJ2XC1H561J ECJ2XC1H561J ECJ2XC1H561J ECJ2XC1H561J ECJ2XC1H561J ECJ2XC1H561J ECJ2XC1H561J ECJ2XC1H561J	C 68PF, J, 50V E 47UF, 16V E 47UF, 16V C 0.1UF, Z, 16V E 10UF, 50V E 22UF, 160V C 0.01UF, Z, 50V E 22UF, 160V C 0.01UF, Z, 50V E 22UF, 160V C 0.01UF, Z, 50V C 560PF, J, 50V	1 2 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ECUM1H680JCN
C3112 C3113,14 C3115 C3301-03 C3323 C3352 C3352 C3362 C3363 C3372 C3373 C3410 C3412 C3414,15 C3417 C3420 C3422 C3424 C3426 C3430 C3450,51	ECJ2XC1H680J ECA1CM470 ECEA1CN470U ECJ2VF1C104Z ECA1HHG100 ECA2AM220 ECKF1H103ZF ECA2AM220 ECKF1H103ZF ECA2AM220 ECKF1H103ZF ECJ2XC1H561J	C 68PF, J, 50V  E 47UF, 16V  E 47UF, 16V  C 0.1UF, Z, 16V  E 10UF, 50V  E 22UF, 160V  C 0.01UF, Z, 50V  E 22UF, 160V  C 0.01UF, Z, 50V  E 22UF, 160V  C 0.01UF, Z, 50V  C 560PF, J, 50V	1 2 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1 1 1 1 1 1 2 2 1	ECUM1H680JCN
C3112 C3113,14 C3115 C3301-03 C3323 C3352 C3353 C3362 C3363 C3372 C3373 C3410 C3412 C3414,15 C3417 C3420 C3422 C3424 C3426 C3430 C3450,51 C3452,53	ECJ2XC1H680J ECA1CM470 ECEA1CM470 ECEA1CN470U ECJ2VF1C104Z ECA1HHG100 ECA2AM220 ECKF1H103ZF ECA2AM220 ECKF1H103ZF ECA2AM220 ECKF1H103ZF ECJ2XC1H561J	C 68PF, J, 50V  E 47UF, 16V  E 47UF, 16V  C 0.1UF, Z, 16V  E 10UF, 50V  E 22UF, 160V  C 0.01UF, Z, 50V  E 22UF, 160V  C 0.01UF, Z, 50V  E 22UF, 160V  C 0.01UF, Z, 50V  C 560PF, J, 50V	1 2 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 2 2	ECUM1H680JCN
C3112 C3113,14 C3115 C3301-03 C3323 C3352 C3352 C3362 C3363 C3372 C3373 C3410 C3412 C3414,15 C3417 C3420 C3422 C3424 C3426 C3430 C3450,51 C3452,53 C6715	ECJ2XC1H680J ECA1CM470 ECEA1CN470U ECJ2VF1C104Z ECA1HHG100 ECA2AM220 ECKF1H103ZF ECA2AM220 ECKF1H103ZF ECA2AM220 ECKF1H103ZF ECJ2XC1H561J	C 68PF, J, 50V  E 47UF, 16V  E 47UF, 16V  C 0.1UF, Z, 16V  E 10UF, 50V  E 22UF, 160V  C 0.01UF, Z, 50V  E 22UF, 160V  C 0.01UF, Z, 50V  E 22UF, 160V  C 0.01UF, Z, 50V  C 560PF, J, 50V	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1 1 1 1 1 1 1 2 2 1	ECUM1H680JCN
C3112 C3113,14 C3115 C3301-03 C3323 C3352 C3353 C3362 C3363 C3372 C3373 C3410 C3412 C3414,15 C3417 C3420 C3422 C3424 C3426 C3430 C3450,51 C3452,53 C6715 C6718	ECJ2XC1H680J ECA1CM470 ECEA1CN470U ECJ2VF1C104Z ECA1HHG100 ECA2AM220 ECKF1H103ZF ECA2AM220 ECKF1H103ZF ECA2AM220 ECKF1H103ZF ECA2AM220 ECKF1H103ZF ECJ2XC1H561J	C 68PF, J, 50V  E 47UF, 16V  E 47UF, 16V  C 0.1UF, Z, 16V  E 10UF, 50V  E 22UF, 160V  C 0.01UF, Z, 50V  E 22UF, 160V  C 0.01UF, Z, 50V  E 22UF, 160V  C 0.01UF, Z, 50V  C 560PF, J, 50V	1 2 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1 1 1 1	ECUM1H680JCN
C3112 C3113,14 C3115 C3301-03 C3323 C3352 C3353 C3362 C3363 C3372 C3373 C3410 C3412 C3414,15 C3417 C3420 C3422 C3424 C3426 C3430 C3450,51 C3452,53 C6715 C6718 C6731,32	ECJ2XC1H680J ECA1CM470 ECEA1CN470U ECJ2VF1C104Z ECA1HHG100 ECA2AM220 ECKF1H103ZF ECA2AM220 ECKF1H103ZF ECA2AM220 ECKF1H103ZF ECA2AM220 ECKF1H103ZF ECJ2XC1H561J	C 68PF, J, 50V E 47UF, 16V E 47UF, 16V C 0.1UF, Z, 16V E 10UF, 50V E 22UF, 160V C 0.01UF, Z, 50V E 22UF, 160V C 0.01UF, Z, 50V E 22UF, 160V C 0.01UF, Z, 50V C 560PF, J, 50V	1 2 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1	ECUM1H680JCN
C3112 C3113,14 C3115 C3301-03 C3323 C3352 C3353 C3362 C3363 C3372 C3373 C3410 C3412 C3414,15 C3420 C3422 C3424 C3426 C3430 C3450,51 C3452,53 C6715 C6718	ECJ2XC1H680J ECA1CM470 ECEA1CN470U ECJ2VF1C104Z ECA1HHG100 ECA2AM220 ECKF1H103ZF ECA2AM220 ECKF1H103ZF ECA2AM220 ECKF1H103ZF ECA2AM220 ECKF1H103ZF ECJ2XC1H561J	C 68PF, J, 50V  E 47UF, 16V  E 47UF, 16V  C 0.1UF, Z, 16V  E 10UF, 50V  E 22UF, 160V  C 0.01UF, Z, 50V  E 22UF, 160V  C 0.01UF, Z, 50V  E 22UF, 160V  C 0.01UF, Z, 50V  C 560PF, J, 50V	1 2 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1 1 1 1	ECUM1H680JCN

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C7004,05	ECA1VHG101	E 100UF, 35V	2	
C7006	ECJ2XC1H681J	C 680PF, J, 50V	1	
C7007	ECJ2XC1H220J	C 22UF, J, 50V	1	ECUM1H220JCN
C7008	ECJ2XC1H681J	C 680PF, J, 50V	1	
C7009	ECJ2XC1H220J	C 22UF, J, 50V	1	ECUM1H220JCN
C7010	ECJ2XC1H681J	C 680PF, J, 50V	1	
C7011	ECJ2XC1H220J	C 22UF, J, 50V	1	ECUM1H220JCN
C7012	ECA1HHG2R2	E 2.2UF, 50V	1	
C7013,14	ECA1VHG101	E 100UF, 35V	2	
C7015,16	ECJ2VF1H103Z	C 0.01UF, Z, 50V	2	
C7017	ECJ2XC1H681J	C 680PF, J, 50V	1	
C7018	ECJ2XC1H220J	C 22UF, J, 50V	1	ECUM1H220JCN
C7019	ECJ2XC1H681J	C 680PF, J, 50V	1	
C7020	ECJ2XC1H220J	C 22UF, J, 50V	1	ECUM1H220JCN
C7021	ECJ2XC1H681J	C 680PF, J, 50V	1	
C7022	ECJ2XC1H220J	C 22UF, J, 50V	1	ECUM1H220JCN
C7090-95	ECJ2XB1H102K	C 1000PF, K, 50V	6	
C7101	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C7102	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C7103	ECA1CM222	E 2200UF, 16V	1	
C7104	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C7105-07	ECJ2XC1H101J	C 100UF, J, 50V	3	
C7108	ECA1CM101	E 100UF, 16V	1	
C7109-11	ECEA1CKA470	E 47UF, 16V	3	
C7112,13	ECJ2XC1H561J		2	
C7112,13	ECJ2VC1H821J	C 560PF, J, 50V	1	
C7115-19	ECJ2VF1H103Z	C 820PF, J, 50V	5	
C7113-19	ECJ2VF1H104Z	C 0.01UF, Z, 50V	1	
C7120	ECJ2VF1H103Z	C 0.1UF, Z, 50V C 0.01UF, Z, 50V	5	
C7121-23	ECEA1CKA470		3	
	ECJ2VF1H103Z	E 47UF, 16V	2	
C7129,30 C7131-34	ECJ2XC1H561J	C 0.01UF, Z, 50V	4	
		C 560PF, J, 50V		
C7135	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C7136	ECA1CM101	E 100UF, 16V	1	
C7137-40	ECJ2XC1H101J	C 100UF, J, 50V	4	
C7141	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C7142	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C7143-48	ECJ2VF1C105Z	C 1UF, Z, 16V	6	
C7149	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C7150	ECA1VM470	E 47UF, 35V	1	
C7151-53	ECJ2VF1H103Z	C 0.01UF, Z, 50V	3	
C7154	ECA1CM101	E 100UF, 16V	1	
C7155-57	ECEA1CKA470	E 47UF, 16V	3	
C7158-61	ECJ2XC1H681J	C 680PF, J, 50V	4	
C7162	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C7163,64	ECJ2XC1H681J	C 680PF, J, 50V	2	
C7165	ECA1VM470	E 47UF, 35V	1	
C7166	ECJ2XC1H681J	C 680PF, J, 50V	1	
C7167	ECEA1CKA470	E 47UF, 16V	1	
C7168	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C7169,70	ECEA1CKA470	E 47UF, 16V	2	
C7171,72	ECJ2VF1H103Z	C 0.01UF, Z, 50V	2	
C7173	ECJ2VB1H273K	C 0.027UF, K, 50V	1	
C7174-76	ECJ2VF1H103Z	C 0.01UF, Z, 50V	3	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C7188-90	ECJ2XC1H560J	C 56PF, J, 50V	3	ECUM1H560JCN
C7191	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C7193,94	ECA1CM101	E 100UF, 16V	2	
C7195	ECJ2XC1H101J	C 100UF, J, 50V	1	
C7196	ECJ2XB1H222K	C 2200PF, K, 50V	1	
C7197	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C7709-11	ECJ2XC1H271J	C 270PF, J, 50V	3	
C7712	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C7713	ECA1EM471	E 470UF, 25V	1	
C7714	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C7715	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C7716	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C7717	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C7718	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C7719-21	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C7725	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C7726	ECA1CM101	E 100UF, 16V	1	
C9301-03	ECJ2VF1H103Z	C 0.01UF, Z, 50V	3	
C9311	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C9312	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	43 INCH MODEL
C9320	ECJ2XB1H152K	C 1500PF, K, 50V	1	
C9322-24	ECJ2VF1H103Z	C 0.01UF, Z, 50V	3	
C9351	ECA1CM101	E 100UF, 16V	1	
C9352,53	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C9601	ECA1VMH470	E 47UF, 35V	1	
C9602	ECJ2XC1H101J	C 100UF, J, 50V	1	
C9603	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C9604	ECA1HM220	E 22UF, 50V	1	
C9611	ECWH16473JV	P 0.047PF,J,1.6KV	1	
C9612	ECA1CM101	E 100UF, 16V	1	
C9613	ECEA1EN101U	E 100UF, 25V	1	
C9614	ECJ2XC1H471J	C 470UF, J, 50V	1	
C9615	ECQB1H223JF	P 0.022UF, J, 50V	1	
	204511122001	0.02201, 0, 001	<u> </u>	
D001	MA4020	ZENER DIODE	1	MAZ4020
D1	TJSF20016	16P CONNECTOR	1	K1KB16A00050
D002	MA4020	ZENER DIODE	1	MAZ4020
D2	TJSF20016	16P CONNECTOR	1	K1KB16A00050
D003	MA3150H	ZENER DIODE	1	MAZ31500H
D3	TJSF20016	16P CONNECTOR	1	K1KB16A00050
D4	K1KA03A00172	3P CONNECTOR	1	KINDIOAGGGG
D004	MA3150H	ZENER DIODE	1	MAZ31500H
D5	TJS3A9880	8P CONNECTOR	1	K1KA08A00179
D6	TJSF20016	16P CONNECTOR	1	K1KB16A00050
D8	TJS3A9670	6P CONNECTOR	1	K1KA06A00179
		DIODE	1	
D010 D12	MA152K K1KA03A00172	3P CONNECTOR	_	MA3X152K
			1 3	K1K 004 000104
D13-15	TJS3A9650	4P CONNECTOR	3	K1KA04A00194
D40	TJS5A9420	8P CONNECTOR	1	K1KB08A00054
D051,52	MA4020	ZENER DIODE	2	MAZ4020
D053	MA152K	DIODE	1	MA3X152K
D60	TJS5A9420	8P CONNECTOR	1	K1KB08A00054
D70	TJS5A9420	8P CONNECTOR	1	K1KB08A00054

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D357	MA165	DIODE	1	MA2C165
D360-63	MA188	DIODE	4	MA2C188
D366	AM01Z	DIODE	1	B0EAKC000002
D367-70	MA188	DIODE	4	MA2C188
D373,74	MA165	DIODE	2	MA2C165
D377	MA165	DIODE	1	MA2C165
D387-90	MA188	DIODE	4	MA2C188
D393,94	MA165	DIODE	2	MA2C165
D397	MA165	DIODE	1	MA2C165
D452	MA152K	DIODE	1	MA3X152K
D453	EU02A	DIODE	1	B0HAMR000047
D454,55	MA152K	DIODE	2	MA3X152K
D456	ERA22-02	DIODE	1	B0HAGM000001
D457-60	AM01Z	DIODE	4	B0EAKC000002
D461	MA3030H	ZENER DIODE	1	
D462	MA721	DIODE	1	MA3X721
D463	ERZV07D470CS		1	
D464	MA188		1	
D465	MA3039H	ZENER DIODE	1	MAZ30390H
D500,01	D1NL40V70	DIODE	2	B0HALP000002
D502	MA4150M	ZENER DIODE	1	MAZ41500M
D503	FMV-3GU	DIODE	1	
D504	MA4270M	ZENER DIODE	1	MAZ42700M
D505	MA4030M	ZENER DIODE	1	MAZ40300M
D510,11	D1NL40V70	DIODE	2	B0HALP000002
D512-14	MA182	DIODE	3	MA2B182
D519	AU02Z	DIODE	1	B0HAKM000004
D530	MA165	DIODE	1	MA2C165
D701	D1NL40V70	DIODE	1	B0HALP000002
D702	MA4120M	ZENER DIODE	1	MAZ41200M
D801	D4SB80Z	DIODE	1	B0EBNT000004 △L
D805	MA2240B	ZENER DIODE	1	MAZ22400B
D807	TLP721FD4GR		1	ВЗРАА0000153 ⚠
D000	MA0000 A	JENER DIODE	4	
D809	MA2082-A	ZENER DIODE	1	MAZ20820A
D811	MA2082-A	ZENER DIODE	1	MAZ20820A
D813	ERDS2TC0	C 0 OHM, 1/4W	1	M A 7 40000M
D815 D816	MA4220M	ZENER DIODE	1	MAZ42200M MA2C165
D819-21	MA165	DIODE	1	B0HAGP000001
D819-21 D822,23	ERA22-04	DIODE	3	
D828	ERC13-08		2	B0EAKT000022 X VERSION
D829	FML-12S	DIODE	1	B0HBRM000012
	ERC91-02	DIODE	1	B0HAPM000003
D831 D851	FMGG2CS	DIODE	1	B0HAPV000011
D860	FML22S FMGG26S	DIODE	1	B0HFRJ000011
D869,70		DIODE	1	MA2Y152K
D869,70	MA152K ERA22-02	DIODE	2	MA3X152K B0HAGM000001
D875,76	ERZV14D511	VARISTOR	2	DOI ING WILLOUD I
D875,76	0N3171R	PHOTO COUPLER	1	A
D885	MA4056H	ZENER DIODE	1	MAZ40560H
D886	MA165	DIODE	1	MA2C165
D890	EU02	DIODE	1	
D893	ERC13-08	DIODE	1	B0EAKT000022

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D894	MA152K	DIODE	1	MA3X152K
D953	TVSSR2KN	DIODE	1	B0ZAZ0000041
D962	MA188	DIODE	1	MA2C188
D1011	LNG201RFC	DIODE	1	
D1012,13	MA4056M	ZENER DIODE	2	MAZ40560M
D1152,53	MA152K	DIODE	2	MA3X152K
D1301	MA152K	DIODE	1	MA3X152K
D1305	MA704A	DIODE	1	MA3X704A
D1306	MA3062M	ZENER DIODE	1	MAZ30620M
D1307	MA3091M	ZENER DIODE	1	MAZ30910M
D1308,09	MA152K	DIODE	2	MA3X152K
D1310-12	MA3062M	ZENER DIODE	3	MAZ30620M
D1313	MA3043M	ZENER DIODE	1	MAZ30430M
D1315	MA3043M	ZENER DIODE	1	MAZ30430M
D1354	MA152WK	DIODE	1	MA3X152E
D2040-42	MA152K	DIODE	3	MA3X152K
D2302	MTZJ5.6B	ZENER DIODE	1	
D2304	MA152K	DIODE	1	MA3X152K
D2305	MA3360M	ZENER DIODE	1	MAZ33600M
D2308	MA4360M	ZENER DIODE	1	MAZ43600M
D2310	MA3360M	ZENER DIODE	1	MAZ33600M
D2312	MA3130H	ZENER DIODE	1	
D2313,14	MA152K	DIODE	2	MA3X152K
D2316	MA152K	DIODE	1	MA3X152K
D2322	RU3YX-M	DIODE	1	
D2361	MTZJ5.6B	ZENER DIODE	1	
D2711	RK34	DIODE	1	
D2712	AK04	DIODE	1	B0JAMC000003
D2713,14	RK34	DIODE	2	
D3003,04	MA3091L	ZENER DIODE	2	
D3007	MA157A	DIODE	1	MA3X157A
D3008	MA3091	ZENER DIODE	1	MAZ3091
D3010,11	MA3091	ZENER DIODE	2	MAZ3091
D3351,52	MA165	DIODE	2	MA2C165
D3361,62	MA165	DIODE	2	MA2C165
D3371,72	MA165	DIODE	2	MA2C165
D3410	MA152K	DIODE	1	MA3X152K
D3411	MA3020	ZENER DIODE	1	III OATOZIA
D6705	EG01C	DIODE	1	B0HAGV000001
D6710	MA2082-A	ZENER DIODE	1	MAZ20820A
D6712	ERC13-08	DIODE	1	B0EAKT000022
D6717,18	ERC13-08	DIODE	2	B0EAKT000022
D7101	MA157A	DIODE	1	MA3X157A
D7102,03	MA152K	DIODE	2	MA3X152K
D7707	MA152WK	DIODE	1	MA3X152E
D7708	MA152K	DIODE	1	MA3X152K
D7709	MA152WK	DIODE	1	MA3X152E
D9350,51	MA3051M	ZENER DIODE	2	MAZ30510M
D9350,51	MA152K	DIODE	1	MA3X152K
D9352	MA188	DIODE	1	43 INCH MODEL
D9354	MA3030H	ZENER DIODE	1	43 INCH MODEL
D9601	MA3075H	ZENER DIODE	1	MAZ30750H
D9602	RP1H	DIODE ZENER DIODE	1	B0HACW000001
D9603,04	MA3030H	ZENER DIODE	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D9605	MA29B	DIODE	1	
D9606	MA152K	DIODE	1	MA3X152K
D9607	MA4062L	ZENER DIODE	1	MAZ40620L
F004	VDAGGETDG	FURE OFFICE		KEDEOODKOOO
F801	XBA2C50TR0	FUSE 250V 5A	1	K5D502BK0003
F801-1,-2	EYF-52BC	FUSE HOLDER	2	
H1,H2	TJSF17425	25P CONNECTOR	2	K1KA25B00004
,2	1001 17420	201 GOINIZOTON	<del>-</del>	11110 E050000-1
IC051,52	AN7805F	LINEAR IC	2	
IC451	LA7845N	LINEAR IC	1	C1AA00000529
IC459	TC74HC221AF	MOS IC (CMOS S/LOGIC)	1	C0JBAM000065
IC501	NJM2903M	INTEGRATED CIRCUIT	1	C0BBBA000019
IC801	STRF6656LF53	LINEAR IC	1	C5HABZZ00014
IC802	STR83145LF55	LINEAR IC	1	X VERSION
IC808	SE139N	LINEAR IC	1	
IC810	AN7812	LINEAR IC	1	
IC881	MIP2810001TV	IC (ROGIC)	1	
IC1101	SDA6000	INTEGRATED CIRCUIT	1	
IC1102	TVRJ646-4	ROM IC	1	C3FBKD000104
IC1104	TVRJ651-1	ROM IC (EEPROM 16KBIT)	1	43 INCH MODEL
IC1104	TVRJ649-1	ROM IC	1	51 INCH MODEL
IC1105	S-80843ALY-Z	LINEAR IC	1	C0EAH0000067
IC1106	TVSA0500	IC	1	C3ABMG000074
IC1107	TC7MBD3245KL	IC	1	C0JBAZ001839
IC1108	AN78L05	LINEAR IC	1	
IC1109	PST9119NR	INTEGRATED CIRCUIT	1	
IC1110	PST9128NR	IC (LOGIC)	1	C0EBE0000066
IC1111	TC7SH32FU	IC	1	
IC1251	SI-3033C	HYBRID IC	1	C0DAEGG00007
IC1252	PQ30RV21A	LINEAR IC	1	C0DAEZH00008
IC1253	M62392FP	IC	1	C0FBBD000083
IC1254	PST9128NR	IC (LOGIC)	1	C0EBE0000066
IC1301	C1AB00001494	OR C1AB00001468	1	
IC1302	TC74HC4066TL	IC	1	
IC1303	C1AB00001310	MB87L1601 OR C1AB00001282	1	
IC1304	C1AB00001494	OR C1AB00001468	1	
IC1305	SDA9415	INTEGRATED CIRCUIT	1	
IC1306,07	MM1065ZMR	LINEAR IC	2	C0CBABB00029
IC1310	TC7WH241FU	MOS IC (CMOS S/LOGIC)	1	C0JBAZ001263
IC1311	MM1065ZMR	LINEAR IC	1	C0CBABB00029
IC1312	NJM2904V	INTEGRATED CIRCUIT	1	C0ABBA000084
IC1314	NJM2904M	LINEAR IC	1	C0ABBA000021
IC1315	AN5394FB	IC	1	
IC2001	TVSA0431	IC	1	
IC2301	TA8200AH	LINEAR IC	1	C1AA00000348
IC2302	AN7108	LINEAR IC	1	
IC2304	AN7108	LINEAR IC	1	
IC2705,06	PQ1CG21H2RZ	INTEGRATED CIRCUIT	2	C0DACMG00001
IC2707	AN7808	LINEAR IC	1	
IC2708	SI-8090K	HYBRID IC	1	
IC2709	PQ1CG21H2RZ	INTEGRATED CIRCUIT	1	C0DACMG00001
IC2710	SI-3033C	HYBRID IC	1	C0DAEGG00007
IC3001	CXA2069Q	LINEAR IC	1	C1AB00000459

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC3003	CXA1211M	LINEAR IC	1	C1AB00000013
IC3004,05	C0ZBZ0000451	IC	2	
IC7001,02	STK392-110	LINEAR IC	2	C5AA00000108
IC7101	AN78L05M	LINEAR IC	1	
IC7102	TVRJ591	ROM IC	1	24LC64T-I/SN
IC7103	TC7WH04FU	MOS IC (CMOS S/LOGIC)	1	
IC7104	C0FBBH000040	IC	1	
IC7105,06	TL084CNS	IC	2	C0AAFB000011
IC7107	C1AB00001220	IC	1	
IC7108	AN78L12M	LINEAR IC	1	
IC7109	AN79L12M	IC	1	
IC7110	BA7603F	IC	1	
IC7121	CXA1875AM	LINEAR IC	1	C0FBBD000017
IC7702	CXA1315M	LINEAR IC	1	C1AB00000440
IC7703	AN6912S	IC	1	
IC9351	AN78N09	LINEAR IC	1	
IC9601	AN6562S	LINEAR IC	1	
103001	A1103023	LINEARIO	•	
J10	ERD25TC0	C 0 OHM, 1/4W	1	
310	ERD23100	C O OTHER, 1/444	•	
JA1,A2	ERJ6GEY0R00	M 0 OHM 1 1/10W	2	
JA4-A9		M 0 OHM, J,1/10W		
	ERJ6GEY0R00	M 0 OHM, J,1/10W	6	
JA12	ERJ6GEY0R00	M 0 OHM, J,1/10W	1	
JA14-21	ERJ6GEY0R00	M 0 OHM,J,1/10W	8	
JA23-25	ERJ6GEY0R00	M 0 OHM,J,1/10W	3	
II/OF4	T 10000700	ODT GOOVET		
JK351	TJSC00700	CRT SOCKET	1	K3B10CA00006 △
JK371	TJSC00700	CRT SOCKET	1	K3B10CA00006 A
JK391	TJSC00700	CRT SOCKET	1	КЗВ10СА00006 △
JK3102	TJB4G636	TERMINAL	1	1021007100000
JK3401	TJB4G639	TERMINAL	1	
	102.000		-	
JS12	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JS14-18	ERJ6GEY0R00	M 0 OHM,J,1/10W	5	
JS24	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JS27	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JS32,33	ERJ6GEY0R00	M 0 OHM,J,1/10W	2	
JS99	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JS7102,03	ERJ6GEY0R00	M 0 OHM,J,1/10W	2	
JS7106	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JS7108	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	43 INCH MODEL
007100	LIGOGETOROS	III 0 011III,0,1710V	•	45 INGIT MODEL
JSA5-A7	ERJ6GEY0R00	M 0 OHM,J,1/10W	3	
JSA22	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSA30	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSA33-36			4	
	ERJ6GEY0R00	M 0 OHM, J,1/10W		
JSA42	ERJ6GEY0R00	M 0 OHM J 1/10W	1	
JSA65,66	ERJ6GEY0R00	M 0 OHM, J,1/10W	2	
JSA68	ERJ6GEY0R00	M 0 OHM, J,1/10W	1	
JSA70	ERJ6GEY0R00	M 0 OHM, J,1/10W	1	
JSA73	ERJ6GEY0R00	M 0 OHM, J,1/10W	1	
JSA78	ERJ6GEY0R00	M 0 OHM, J,1/10W	1	
JSA84	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
JSA90	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSA92-95	ERJ6GEY0R00	M 0 OHM,J,1/10W	4	
JSA101	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSD14	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSDG16-18	ERJ6GEY0R00		3	
JSDG18	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSDG27	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSDG55	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JSDG57-88	ERJ3GEY0R00	M 0 OHM, 1/16W	32	
JSDG100	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSDG103	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSDG104-09	ERJ3GEY0R00	M 0 OHM, 1/16W	6	
JSDG111,12	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
JSDG113	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSH1-H6	ERJ6GEY0R00	M 0 OHM,J,1/10W	6	
JSU3	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
		,		
L002,03	ELESE2R2KA	PEAKING COIL	2	
L008,09	EXCELDR35C	BEAD CHOKE	2	
L053	EXCELDR35C	BEAD CHOKE	1	
L055,56	ELESE2R2KA	PEAKING COIL	2	
L351	ELEBD101KA	PEAKING COIL	1	
L352	ELESE100JA	PEAKING COIL	1	
L353	ELESE1R0JA	PEAKING COIL	1	
L354	ELESE6R8JA	PEAKING COIL	1	
L371	ELEBD101KA	PEAKING COIL	1	
L372	ELESE100JA	PEAKING COIL	1	
L373	ELESE4R7KA	PEAKING COIL	1	
L374	ELESE6R8JA	PEAKING COIL	1	
L391	ELEBD101KA	PEAKING COIL	1	
L392	ELESE150JA	PEAKING COIL PEAKING COIL	1	
L393	ELESE1303A ELESE6R8JA	PEAKING COIL	1	
L394	ELESE100JA	PEAKING COIL PEAKING COIL	1	
L414	ELESE1706A	PEAKING COIL	1	
L452,53	EXCELDR35C	BEAD CHOKE	2	
L503	EXCELSA35	BEAD CHOKE	1	
L505	EXCELSA24	BEAD CHOKE	1	
L506-08	EXCELDR25C	BEAD CHOKE	3	
L531			1	
	EXCELDR35C	BEAD CHOKE		
L555	ELH5L718	HORIZONTAL COIL	1	
L701	TALFP15B222K	INDUCTION COIL	1	
L702	ELC18B121F	CHOKE COIL	1	
L703	EXCELSA35	BEAD CHOKE	1	
L704	EXCELDR35C	BEAD CHOKE	1	
L815,16	EXCELSA39	BEAD CHOKE	2	
L818	EXCELSA35	BEAD CHOKE	1	
L820	EXCELSA24	BEAD CHOKE	1	
L822	EXCELDR35C	BEAD CHOKE	1	
L827,28	TALL08N220KA	INDUCTION COIL	2	G0C220K00013
L830	EXCELSA35	BEAD CHOKE	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L851	EXCELSA35	BEAD CHOKE	1	
L857	EXCELSA35	BEAD CHOKE	1	
L861	TLUADTB470K	INDUCTION COIL	1	G0A470GA0017
L862	TALL08N101KA	INDUCTION COIL	1	G0A101EA0008
L870	ELF24V030A	LINE FILTER	1	X VERSION A
L870	ELF24V018A	LINE FILTER	1	EX X VERSION
L872	ELF24V032B	LINE FILTER	1	X VERSION A
L872	ELF24V019A	LINE FILTER	1	EX X VERSION
L873	ELF24V030A	LINE FILTER	1	X VERSION A
L873	ELF24V018A	LINE FILTER	1	EX X VERSION
L874	EXCELSA35	BEAD CHOKE	1	
L880	EXCELSA35	BEAD CHOKE	1	
L883	TALL08N181KA	INDUCTION COIL	1	G0A181EA0008
L904	TLUABTA560K	PEAKING COIL	1	G0C560K00004
L951	EXCELSA35	BEAD CHOKE	1	
L953,54	EXCELSA35	BEAD CHOKE	2	
L956	EXCELSA35	BEAD CHOKE	1	
L1052	EXCELSA35	BEAD CHOKE	1	
L1101	ERDS2TC0	C 0 OHM, 1/4W	1	
L1103,04	TALC325T4R7M	CHIP INDUCTOR COIL	2	
L1106	ELESE4R7JA	PEAKING COIL	1	
L1107-10	TALC325T4R7M	CHIP INDUCTOR COIL	4	
L1115	TALC325T3R3M	CHIP INDUCTOR COIL	1	
L1116	TALC325T4R7M	CHIP INDUCTOR COIL	1	
L1300	TALC325T4R7M	CHIP INDUCTOR COIL	1	
L1301,02	TALC168T3R3K	CHIP INDUCTOR COIL	2	
L1303	TALC168T2R2K	CHIP INDUCTOR COIL	1	
L1304	TALC325T4R7M	CHIP INDUCTOR COIL	1	
L1305	TALC168T3R3K	CHIP INDUCTOR COIL	1	
L1306	TALC325T4R7M	CHIP INDUCTOR COIL	1	
L1307	ERDS2TC0	C 0 OHM, 1/4W	1	
L1308,09	ELJPA100KB	PEAKING COIL	2	G1C100KA0002
L1310,11	TALC325T4R7M	CHIP INDUCTOR COIL	2	G1010010002
L1313-15	TALC325T4R7M	CHIP INDUCTOR COIL	3	
L1317	TALC168T6R8K	CHIP INDUCTOR COIL	1	
L1317	TALC325T4R7M	CHIP INDUCTOR COIL	2	
L1321	TALC325T4R7M	CHIP INDUCTOR COIL	1	
L1323,24	TALC325T4R7M	CHIP INDUCTOR COIL	2	
L1323,24	TALC325T4R7M	CHIP INDUCTOR COIL	1	
L2001,02	EXCELDR35C	BEAD CHOKE	2	
	ELESE6R8KA	PEAKING COIL	1	
L2004				
L2005	EXCELDR35C	BEAD CHOKE	1	
L2007,08	EXCELDR35C	BEAD CHOKE	2	
L2009,10	TALC325T4R7M	CHIP INDUCTOR COIL	2	
L2278	EXCELSA35	BEAD CHOKE	1	COAFDOLICOOO
L2302	TLS159054E	NETWORK COIL	1	G0A5R0H00003
L2303	EXCELSA35	BEAD CHOKE	1	E4 MOU MODE:
L2304	EXCELSA35	BEAD CHOKE	1	51 INCH MODEL
L2305	EXCELSA35	BEAD CHOKE	1	51 INCH MODEL
L2306	TLS159054E	NETWORK COIL	1	G0A5R0H00003
L2307	EXCELSA35	BEAD CHOKE	1	
L2308	EXCELSA35	BEAD CHOKE	1	51 INCH MODEL
L2309	EXCELSA35	BEAD CHOKE	1	51 INCH MODEL

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L2310	EXCELSA35	BEAD CHOKE	1	
L2323	EXCELDR35C	BEAD CHOKE	1	
L2523-26	ELESE6R8KA	PEAKING COIL	4	
L2527	EXCELSA35	BEAD CHOKE	1	
L2703	EXCELDR35C	BEAD CHOKE	1	
L2704	TALL08N330KA	INDUCTION COIL	1	G0A330GA0011
L2705	EXCELDR35C	BEAD CHOKE	1	
L2706	TAL10RP151LB	INDUCTION COIL	1	G0ZZ00001908
L2707	TALL08N470KA	INDUCTION COIL	1	G0A470GA0011
L2708	EXCELDR35C	BEAD CHOKE	1	
L2709	TLPF095	CHOKE COIL	1	G0A221GA0001
L2710	EXCELDR35C	BEAD CHOKE	1	
L2712	TAL10RP151LB	INDUCTION COIL	1	G0ZZ00001908
L2713-15	EXCELDR35C	BEAD CHOKE	3	
L2716,17	TALL08N330KA	INDUCTION COIL	2	G0A330GA0011
L2718,19	TLPF095	CHOKE COIL	2	G0A221GA0001
L2722-25	EXCELDR35C	BEAD CHOKE	4	
L2727	EXCELDR35C	BEAD CHOKE	1	
L2729	EXCELDR35C	BEAD CHOKE	1	
L2730	TALL08N680KA	INDUCTION COIL	1	G0A680GA0011
L2732	EXCELDR35C	BEAD CHOKE	1	
L2734,35	EXCELDR35C	BEAD CHOKE	2	
L2736-43	EXCML45A910H	BEAD CHOKE	8	
L2744	EXCCL4532U1	BEAD CHOKE	1	
L3002,03	ERDS2TC0	C 0 OHM, 1/4W	2	
L3004	ELESE4R7KA	PEAKING COIL	1	
L3050	ELESE221KA	PEAKING COIL	1	
L3403,04	ELESE1R5KA	PEAKING COIL	2	
L3415	EXCELDR35C	BEAD CHOKE	1	
L3420	ELESE4R7JA	PEAKING COIL	1	
L3424	EXCELDR25C	BEAD CHOKE	1	
L6719,20	EXCELDR25C	BEAD CHOKE	2	
L7001-06	EXCELSA39	BEAD CHOKE	6	
L7007,08	ELJPA100KB	CHIP INDUCTOR	2	
L7704	ELESE100JA	PEAKING COIL	1	
27704	LLLOLIOUDA	I PARING GOIL		
LB1	TJS3A9900	10P CONNECTOR	1	K1KA10A00218
LB2	TJS3A9640	3P CONNECTOR	1	K1KA03A00171
	1000/10010			
LC1101,02	TLK212T256AL	EMI FILTER	2	J0HAAB000012
LC1104-06	TLK212T256AL	EMI FILTER	3	J0HAAB000012
LC1107-09	ELKE103FA	NOISE FILTER	3	001111111111111111111111111111111111111
LC1110-13	TLK212T256AL	EMI FILTER	4	J0HAAB000012
LC1114	TLK20LFA224M	EMI FILTER	1	J0HABB000004 TX MODEL
LC1115-20	TLK20LFA103M	EMI FILTER	6	CONADDOCCO TA MODEL
LC1121-24	TLK20LFA224M	EMI FILTER	4	J0HABB000004
LC1125-28	TLK20LFA224W	EMI FILTER	4	00.1/1000000T
LC1125-28 LC1130-34	TLK20LFA103M	EMI FILTER	5	
LC1135	TLK212T256AL	EMI FILTER	1	J0HAAB000012
LC1136-39	TLK20LFA103M	EMI FILTER	4	0011AAD000012
				INHAAR000012
LC1140	TLK212T256AL	EMI FILTER	1 3	J0HAAB000012
LC1141-43	TLK20LFA103M	EMI FILTER	3	IOU A ARODOO12
LC1144-46	TLK212T256AL	EMI FILTER	3	J0HAAB000012
LC1147	ELKE103FA	NOISE FILTER	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
LC1300-05	TLK20LFA224M	EMI FILTER	6	J0HABB000004
LC1309,10	TLK20LFA223M	EMI FILTER	2	J0HABB000003
LC1312	TLK20LFA223M	EMI FILTER	1	J0HABB000003
LC1314-19	TLK20LFA223M	EMI FILTER	6	J0HABB000003
LC1320	TLK20LFA224M	EMI FILTER	1	J0HABB000004
LC1321	TLK20LFA223M	EMI FILTER	1	J0HABB000003
LC1323	TLK20LFA224M	EMI FILTER	1	J0HABB000004
LC1324,25	TLK20LFA223M	EMI FILTER	2	J0HABB000003
LC1326-28	TLK20LFA224M	EMI FILTER	3	J0HABB000004
LC1329-33	ELKE103FA	NOISE FILTER	5	
LG1	TJS3A9680	7P CONNECTOR	1	K1KA07A00095
LG2	TJS3A9880	8P CONNECTOR	1	K1KA08A00179
LG3	TJS3A9910	11P CONNECTOR	1	K1KA11A00059
LG4	TJS3A9900	10P CONNECTOR	1	K1KA10A00218
LG5-G7	TJS3A9640	3P CONNECTOR	3	K1KA03A00171
LG3-G7	1000A9040	3F CONNECTOR	3	KTKAU3AUU171
LR1	TJS3A9910	11P CONNECTOR	1	K1KA11A00059
	TJS3A9910		1	
LR2	1353A9640	3P CONNECTOR	1	K1KA03A00171
N44	T 10400040	4D CONNECTOR	4	K4KA04B00005
M1	TJS169610	4P CONNECTOR	1	K1KA04B00005
M11	TJS3A9660	5P CONNECTOR	1	K1KA05A00138
M12	TJS3A9920	12P CONNECTOR	1	K1KA12A00156
M13	TJS3A9680	7P CONNECTOR	1	K1KA07A00095
DO.	T 104 00 700	ED CONNECTOR		K4K40540000
P2	TJS169700	5P CONNECTOR	1	K1KA05A00090
P4	TJS3A9640	3P CONNECTOR	1	K1KA03A00171
P40	TJS3A9140	CONNECTOR	1	K1KA08B00121
P50	TJS3A8010	3P CONNECTOR	1	K1KB03B00009
P60	TJS3A9140	CONNECTOR	1	K1KA08B00121
P70	TJS3A9140	CONNECTOR	1	K1KA08B00121
Q002	2SB709A	TRANSISTOR	1	2SB0709A
Q052	2SB709A	TRANSISTOR	1	2SB0709A
Q353	2SC3942	TRANSISTOR	1	
Q354	2SC3790E	TRANSISTOR	1	B1BAAN000024
Q355,56	2SA1480	TRANSISTOR	2	
Q373	2SC3942	TRANSISTOR	1	
Q374	2SC3790E	TRANSISTOR	1	B1BAAN000024
Q375,76	2SA1480	TRANSISTOR	2	
Q393	2SC3942	TRANSISTOR	1	
Q394	2SC3790E	TRANSISTOR	1	B1BAAN000024
Q395,96	2SA1480	TRANSISTOR	2	
Q451	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q460-63	2SD601A-R	TRANSISTOR	4	2SD0601AR
Q501	2SK2962	FET	1	
Q551	2SC5612	TRANSISTOR	1	
Q552-54	2SC1473	TRANSISTOR	3	2SC14730E
Q701	2SK2538000LB	FET	1	
Q805	2SK2123000LB	FET	1	
Q849	2SA19610Q0HW	TRANSISTOR	1	
Q852	2SC3311A	TRANSISTOR	1	2SC3311AW
Q854	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q902,03	2SC3311A	TRANSISTOR	2	2SC3311AW

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q907	2SC3311A	TRANSISTOR	1	2SC3311AW
Q908	2SC1318A	TRANSISTOR	1	2SC1318AW
Q951	2SA720-R	TRANSISTOR	1	
Q952,53	2SC1318A	TRANSISTOR	2	2SC1318AW
Q954	2SA720-R	TRANSISTOR	1	
Q955	2SA1535A	TRANSISTOR	1	
Q956	2SC3944A	TRANSISTOR	1	
Q961	2SA720A	TRANSISTOR	1	
Q962	2SC1318A	TRANSISTOR	1	2SC1318AW
Q1003	2SC3311A	TRANSISTOR	1	2SC3311AW
Q1107	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q1115	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q1121-23	2SD601A-R	TRANSISTOR	3	2SD0601AR
Q1125	2SD601A-R	TRANSISTOR	1	2SD0601AR TX MODEL
Q1303-05	2SD601A-R	TRANSISTOR	3	2SD0601AR
Q1306	2SB709A	TRANSISTOR	1	2SB0709A
Q1307	XN5601	TRANSISTOR	1	XN05601
	2SB709A	TRANSISTOR	2	2SB0709A
Q1308,09				
Q1311-16	2SB709A	TRANSISTOR	6	2SB0709A
Q1318,19	2SB709A	TRANSISTOR	2	2SB0709A
Q1321,22	2SB709A	TRANSISTOR	2	2SB0709A
Q1325,26	2SB709A	TRANSISTOR	2	2SB0709A
Q1327	2SK198R	FET	1	2SK01980R
Q1328	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q1329	2SK198R	FET	1	2SK01980R
Q1333	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q1336	2SB709A	TRANSISTOR	1	2SB0709A
Q2002-05	2SB709A	TRANSISTOR	4	2SB0709A
Q2040,41	2SD601A-R	TRANSISTOR	2	2SD0601AR
Q2043	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q2215,16	2SD601A-R	TRANSISTOR	2	2SD0601AR
Q2301-06	2SD601A-R	TRANSISTOR	6	2SD0601AR
Q2307,08	2SB709A	TRANSISTOR	2	2SB0709A
Q2309-12	2SD601A-R	TRANSISTOR	4	2SD0601AR
Q2361	2SC3311A	TRANSISTOR	1	2SC3311AW
Q3006	2SB709A	TRANSISTOR	1	2SB0709A
Q3007	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q3011	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q3071,72	2SD601A-R	TRANSISTOR	2	2SD0601AR
Q3130	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q3131	2SB709A	TRANSISTOR	1	2SB0709A
Q3132	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q3351	2SB1030A	TRANSISTOR	1	
Q3361	2SB1030A	TRANSISTOR	1	
Q3371	2SB1030A	TRANSISTOR	1	
Q3401	2SB709A	TRANSISTOR	1	2SB0709A
Q3402	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q7001,02	2SD601A-R	TRANSISTOR	2	2SD0601AR
Q7101	XN1501	TRANSISTOR	1	XN01501
Q7102	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q7103	2SB709A	TRANSISTOR	1	2SB0709A
Q7701-03	2SD601A-R	TRANSISTOR	3	2SD0601AR
Q7704-06	2SB709A	TRANSISTOR	3	2SB0709A
Q7707-09	2SC3526H	TRANSISTOR	3	
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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q7710,11	2SB709A	TRANSISTOR	2	2SB0709A
Q7712	2SC3757-R	TRANSISTOR	1	2SC37570R
Q7713,14	2SB709A	TRANSISTOR	2	2SB0709A
Q7715	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q7716	2SB709A	TRANSISTOR	1	2SB0709A
Q7717-19	2SD601A-R	TRANSISTOR	3	2SD0601AR
Q7720-25	2SB709A	TRANSISTOR	6	2SB0709A
Q9301	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q9601	2SB709A	TRANSISTOR	1	2SB0709A
Q9602	2SC4635	TRANSISTOR	1	2020103A
Q9603	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q9003	23D001A-R	TRANSISTOR	'	25D0001AR
R001	ED ISCEV 1202	M 20KOHM 14/40W	1	
	ERJ6GEYJ393	M 39KOHM, J,1/10W		
R002,03	ERJ6GEYJ683	M 68KOHM,J,1/10W	2	
R005	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R008	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R052,53	ERJ6GEYJ683	M 68KOHM,J,1/10W	2	
R055	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R056	ERJ6GEYJ393	M 39KOHM,J,1/10W	1	
R057	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R058	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R059	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R064	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R355	ERDS2TJ470	C 47 OHM, J,1/4W	1	
R357	ERG7ZJ272	M 2.7KOHM, J, 7W	1	
R358	ERDS2TJ473	C 47KOHM, J,1/4W	1	
R359	ERDS2TJ563	C 56KOHM, J,1/4W	1	
R362	ERC12GK331	S 330 OHM, 1/2W	1	
R365	ERDS2TJ821	C 820 OHM, J,1/4W	1	
R366,67	ERG12SJ101P	M 100 OHM, J,1/2W	2	
R368,69	ERDS1FJ330	C 33 OHM, J,1/2W	2	
R372	ERC12GK331	S 330 OHM, 1/2W	1	
R373	ERG7ZJ272	M 2.7KOHM, J, 7W	1	
R375	ERDS2TJ470	C 47 OHM, J,1/4W	1	
R377	ERDS2TJ104	C 100KOHM, J,1/4W	1	
R378	ERDS2TJ473	C 47KOHM, J,1/4W	1	
R379	ERDS2TJ563	C 56KOHM, J,1/4W	1	
R382	ERC12GK331	S 330 OHM, 1/2W	1	
R383	ERG7ZJ272	M 2.7KOHM, J, 7W	1	
R385	ERDS2TJ821	C 820 OHM, J,1/4W	1	
R386,87	ERG12SJ101P	M 100 OHM, J,1/2W	2	
R388,89	ERDS1FJ330	C 33 OHM, J,1/2W	2	
R390	ERDS2TJ821	C 820 OHM, J,1/4W	1	
R391,92	ERG12SJ101P	M 100 OHM, J,1/2W	2	
R393,94	ERDS1FJ330	C 33 OHM, J,1/2W	2	
R395	ERDS2TJ470	C 47 OHM, J,1/4W	1	
R398	ERDS2TJ473	C 47KOHM, J,1/4W	1	
R399	ERDS2TJ563	C 56KOHM, J,1/4W	1	
R451,52	ERX12SJ3R3	M 3.3 OHM, J,1/2W	2	
R453	ERJ6GEYJ393	M 39KOHM, J,1/10W	1	
R454			1	
	ERJ6GEYJ123	M 12KOHM,J,1/10W		
R455	ERG3FJS331D	M 330 OHM, J, 3W	1	
R456	ERJ6ENF9531	M9.53KOHM, 1/10W	1	
R457	ERJ6ENF7151	M7.15KOHM, 1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R458	ERJ6ENF3481	M3.48KOHM, 1/10W	1	
R460	ERDS1FJ1R0	C 1 OHM, J,1/2W	1	
R461	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R462	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R463	ERJ6GEYJ563	M 56KOHM,J,1/10W	1	
R464	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R465	ERJ6GEYJ272	M 2.7KOHM,J,1/10W	1	
R466	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R467	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R468	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R469	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R470,71	ERJ6GEY0R00		2	
R470,71		M 0 OHM, J,1/10W	3	
	ERDS2TJ331	C 330 OHM, J,1/4W	1	
R475	ERJ6ENF3011	M3.01KOHM, 1/10W		
R476	ERJ6GEYJ103	M 10KOHM, J, 1/10W	1	
R477	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R478,79	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R501	ERDS2TJ104	C 100KOHM, J,1/4W	1	
R502	ERDS2TJ680	C 68 OHM, J,1/4W	1	
R503	ERG3FJS680D	M 68 OHM, J, 3W	1	
R504	ERG1SJ102P	M 1KOHM, J, 1W	1	
R506	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R507	ERDS2TJ152	C 1.5KOHM, J,1/4W	1	
R510	ERDS1FJ1R5	C 1.5 OHM, J,1/2W	1	
R511	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R512	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R513	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R514	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R515,16	ERDS2TJ222	C 2.2KOHM, J,1/4W	2	
R517	ER0S2CKF4991	M4.99KOHM, F,1/4W	1	
R518	ERDS2TJ222	C 2.2KOHM, J,1/4W	1	
R519	ER050CKF4532	M4.53KOHM, F,1/2W	1	ERO50CKF4532
R520	ER0S2CKF3832	M38.3KOHM, F,1/4W	1	EROS2CKF3832
R521	ER0S2CKF6041	M6.04KOHM, F,1/4W	1	EROS2CKF6041
R522	ER0S2CKF3321	M3.32KOHM, F,1/4W	1	
R524	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R525	ERQ12HKR33	F0.33 OHM, K,1/2W	1	
R526	ERQ12HJ330	F 33 OHM, J,1/2W	1	
R527	ERJ6ENF2552	M25.5KOHM, 1/10W	1	
R528	ERJ6ENF8061	M8.06KOHM, 1/10W	1	
R529	ER0S2CKF4991	M4.99KOHM, F,1/4W	1	
R530	ERDS2TJ471	C 470 OHM, J,1/4W	1	
R531	ERDS2TJ275	C 2.7MOHM, J,1/4W	1	
R532	ERDS2TJ224	C 220KOHM, J,1/4W	1	
R533	EVMAASA00B34	CONTROL 30KOHMB	1	
R534	ERDS2TJ333	C 33KOHM, J,1/4W	1	
R540	ERDS2TJ104	C 100KOHM, J,1/4W	1	
R545	ERG1SJ100P	M 10 OHM, J, 1W	1	
R647	ERJ6GEYJ680	M 68 OHM,J,1/10W	1	
R652,53	ERJ6GEYJ331	M 330 OHM,J,1/10W	2	
R654	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R655-57	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	3	
R658	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R701	ERDS1FJ680	C 68 OHM, J,1/2W	1	
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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R703	ERF5AK4R7	W 4.7 OHM, K, 5W	1	
R779	ERJ6ENF1152	M11.5KOHM, 1/10W	1	
R780	ERJ6GEYJ822	M 8.2KOHM,J,1/10W	1	
R781	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R782	ERDS2TJ391	C 390 OHM, J,1/4W	1	
R783	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	1	
R801	ERF10ZK4R7	W 4.7 OHM, Z, 10W	1	
R803,04	ERG2FJS393D	M 39K OHM, J, 2W	2	
R806	ERX12SJR12P	M 12 OHM, J,1/2W	1	
R810	ERX12SJR12P	M 12 OHM, J,1/2W	1	
R815	ERD75TAJ825	C 8.2MOHM, J,3/4W	1	Δ
				7-1
R819	ERDS2TJ681	C 680 OHM, J,1/4W	1	
R820	ERDS2TJ562	C 5.6KOHM, J,1/4W	1	
R821	ERDS2TJ680	C 68 OHM, J,1/4W	1	
R822	ERDS2TJ820	C 82 OHM, J,1/4W	1	
R832	ERDS1FJ391	C 390 OHM, J,1/2W	1 -	
R836,37	ERDS2TJ152	C 1.5KOHM, J,1/4W	2	
R845	ERX1SJR27	M 0.27 OHM, J, 1W	1	
R854	ERDS2TJ221	C 220 OHM, J,1/4W	1	
R861	ERG3FJS470D	M 47 OHM, J, 3W	1	
R867	ERG3FJS153D	M 15KOHM, J, 3W	1	
R870	ERC12ZGK335	S 3.3MOHM, K,1/2W	1	$\Delta$
R871	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R872	ERJ6GEYJ154	M 150KOHM,J,1/10W	1	
R873	ERDS1FJ102	C 1KOHM, J,1/2W	1	
R877	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R880	ERDS2TJ183	C 18KOHM, J,1/4W	1	
R881	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R882	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R883	ERG1SJ104P	M 100KOHM, J, 1W	1	
R884	ERDS2TJ223	C 22KOHM, J,1/4W	1	
R885,86	ERX1SJ1R0	M 1.0 OHM, J, 1W	2	
R890	ERDS1FJ102	C 1KOHM, J,1/2W	1	
R891	ERDS1FJ122	C 1.2KOHM, J,1/2W	1	
R901	ERDS1FJ821	C 820 OHM, J,1/2W	1	
R902	ERDS2TJ683	C 68KOHM, J,1/4W	1	
R903	ERDS2TJ153	C 15KOHM, J,1/4W	1	
R904,05	ERDS2TJ472	C 4.7KOHM, J,1/4W	2	
R906	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R907	ERDS2TJ151	C 150 OHM, J,1/4W	1	
R908	ERDS2TJ272	C 2.7KOHM, J,1/4W	1	
R914	ERDS2TJ562	C 5.6KOHM, J,1/4W	1	
R915	ERDS2TJ182	C 1.8KOHM, J,1/4W	1	
R916	ERDS2TJ391	C 390 OHM, J,1/4W	1	
R917	ERDS2TJ470	C 47 OHM, J,1/4W	1	
R920	ERDS2TJ181	C 180 OHM, J,1/4W	1	
R922,23	ERDS2TJ103	C 10KOHM, J,1/4W	2	
R951	ERDS2TJ271	C 270 OHM, J,1/4W	1	
R952	ERDS1FJ152	C 1.5KOHM, J,1/2W	1	
R953	ERDS2TJ271	C 270 OHM, J,1/4W	1	
R954	ERDS1FJ152	C 1.5KOHM, J,1/2W	1	
R955	ERDS2TJ271	C 270 OHM, J,1/4W	1	
R956	ERDS1FJ152	C 1.5KOHM, J,1/2W	1	
17930	LND31FJ1JZ	O 1.5/(OFIIVI, 3, 1/2VV		

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R960	ERQ14AJ100P	F 10 OHM, J,1/4W	1	
R964	ERDS2FJ122	C 1.2KOHM, 1/4W	1	
R965	ERDS2TJ683	C 68KOHM, J,1/4W	1	
R966	ERG1SJ271	M 270 OHM, J, 1W	1	
R967	ERDS2TJ683	C 68KOHM, J,1/4W	1	
R968	ERDS2TJ122	C 1.2KOHM, J,1/4W	1	
R969	ERDS1FJ390	C 39 OHM, J,1/2W	1	
R970,71	ERDS2TJ8R2	C 8.2 OHM, J,1/4W	2	
R972	ERDS1FJ390	C 39 OHM, J,1/2W	1	
R973	ERDS1FJ470	C 47 OHM, J,1/2W	1	
R975-77	ERG1SJ271	M 270 OHM, J, 1W	3	
R978	ERDS2TJ104	C 100KOHM, J,1/4W	1	
R1043	ERDS2TJ682	C 6.8KOHM, J,1/4W	1	
R1044	ERDS2TJ123	C 12KOHM, J,1/4W	1	
R1045	ERDS2TJ223	C 22KOHM, J,1/4W	1	
R1046	ERDS2TJ683	C 68KOHM, J,1/4W	1	
R1050	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R1051	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R1081	ERDS2TJ332	C 3.3KOHM, J,1/4W	1	
R1082	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R1083,84	ERDS2TJ101	C 100 OHM, J,1/4W	2	
R1085	ERDS2TJ221	C 220 OHM, J,1/4W	1	
R1101,02	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	2	
R1103	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R1104	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R1105	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R1106	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1107-10	ERJ6GEYJ272	M 2.7KOHM,J,1/10W	4	
R1111,12	TAJAAH0101JV	M 100 OHM,J,1/16W	2	D0GB101JA006
R1113	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	DOGBTOTOACCO
R1114			1	
	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R1115	ERJ6GEYJ101	M 100 OHM,J,1/10W		
R1116	ERJ3GEYJ153	M 15KOHM, J, 1/16W	1	
R1117	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	DOCEMON IADOC
R1118-21	TAJAAH0101JV	M 100 OHM,J,1/16W	4	D0GB101JA006
R1122-25	ERJ3GEYJ103	M 10KOHM,J,1/16W	4	
R1126	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1127	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1128	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	
R1131	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1132	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R1134	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R1143	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R1145	ERJ3GEYJ391	M 390 OHM,J,1/16W	1	D0GB391JA002 TX MODEL
R1146	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1147	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006 TX MODEL
R1153	ERJ3GEYJ563	M 56KOHM,J,1/16W	1	
R1154	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1155	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R1156	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1157,58	TAJAAH0101JV	M 100 OHM,J,1/16W	2	D0GB101JA006
R1159	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1160	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	1	
R1161	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1162	ERJ6GEYJ123	M 12KOHM,J,1/10W	1	
R1164	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R1166	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R1168	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R1169	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1170	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1172	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1177	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R1178	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1179	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	1	
R1180	ERJ3GEYJ392	M 3.9KOHM,J,1/16W	1	
R1181	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R1188-93	TAJAAH0101JV	M 100 OHM,J,1/16W	6	D0GB101JA006
R1194	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	20210107000
R1195	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R1196	EXB38V680J	RESISTOR ARRAY	1	20021010200
R1202		RESISTOR ARRAY	1	
	EXB38V680J	RESISTOR ARRAY	1	
R1205	EXB38V680J	RESISTOR ARRAY		
R1209	EXB38V680J	RESISTOR ARRAY	1	
R1214	EXB38V680J		1	
R1217	EXB38V680J	RESISTOR ARRAY	1	
R1221	EXB38V680J	RESISTOR ARRAY	1	
R1225	EXB38V680J	RESISTOR ARRAY	1	
R1232,33	EXB38V680J	RESISTOR ARRAY	2	
R1236	EXB38V680J	RESISTOR ARRAY	1	
R1239,40	ERJ6GEYJ223	M 22KOHM,J,1/10W	2	
R1241	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R1242	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R1243	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R1249,50	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R1251	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R1253	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R1255	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	TX MODEL
R1256	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	TX MODEL
R1257	ERJ3GEY0R00	M 0 OHM, 1/16W	1	TX MODEL
R1258	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	TX MODEL
R1264	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1293,94	ERJ6ENF3901	M 3.9KOHM, 1/10W	2	
R1301	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1302	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1303	ERJ6ENF2200	M 220 OHM, 1/10W	1	
R1304	ERJ3EKF7151	M 7.15K OHM,1/16W	1	
R1305	ERJ6ENF2200	M 220 OHM, 1/10W	1	
R1306	ERJ6ENF1200	M 120 OHM, 1/10W	1	
R1307	ERJ3EKF6801	M 6.8K OHM, 1/16W	1	
R1308	ERJ3EKF3901	M 3.9K OHM, 1/16W	1	
R1309,10	ERJ6ENF3741	M3.74KOHM, 1/10W	2	
R1311	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R1312	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R1313,14	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	2	
R1315	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1316	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R1317	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1318	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1319	ERJ6ENF5600	M 560 OHM, 1/10W	1	
R1320	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1321	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	1	
R1322	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R1323	ERJ6ENF47R0	M 47 OHM, 1/10W	1	
R1324	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	1	
R1326	ERJ6ENF47R0	M 47 OHM, 1/10W	1	
R1327	ERJ6ENF1500	M 150 OHM, 1/10W	1	
R1328	ERJ3GEYJ392	M 3.9KOHM,J,1/16W	1	
R1329	ERJ6ENF47R0	M 47 OHM, 1/10W	1	
R1330	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R1331	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1332	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R1335	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R1338	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1339	ERJ3GEYJ121	M 120 OHM,J,1/16W	1	
R1343	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1344	ERJ6ENF1500	M 150 OHM, 1/10W	1	
R1345	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1346	ERJ3GEYJ181	M 180 OHM,J,1/16W	1	
R1347	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1348	ERJ6ENF2200	M 220 OHM, 1/10W	1	
R1349	ERJ6ENF2701	M 2.7KOHM, 1/10W	1	
R1350	ERJ6ENF2200	M 220 OHM, 1/10W	1	
R1351	ERJ6ENF2701	M 2.7KOHM, 1/10W	1	
R1352	ERJ6ENF2200	M 220 OHM, 1/10W	1	
R1353			1	
	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1354	ERJ3GEYJ151	M 150 OHM,J,1/16W		
R1355	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R1356	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R1357	ERJ3GEYJ272	M 2.7KOHM, J,1/16W	1	
R1358	ERJ3GEYJ102	M 1KOHM, J,1/16W	1	
R1359	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1360	ERJ6ENF5601	M 5.6KOHM, 1/10W	1	
R1361	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	1	
R1362	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1363-65	TAJAAH0101JV	M 100 OHM,J,1/16W	3	D0GB101JA006
R1366	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1367	ERJ6ENF3000	M 300 OHM, 1/10W	1	
R1368	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1369	ERJ3GEYJ823	M 82KOHM,J,1/16W	1	
R1370	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1371	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	
R1372	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1373	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	
R1374	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1375,76	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R1377	ERJ3GEYJ224	M 220KOHM,J,1/16W	1	
R1379	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1380	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	
R1381	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1382	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	
R1383	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R1384	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1385	TAJAAH0470JV	M 47 OHM,J,1/16W	1 47 OHM,J,1/16W 1	
R1387	ERJ3GEYJ471	M 470 OHM,J,1/16W	M 470 OHM,J,1/16W 1	
R1388	ERJ3GEYJ102	M 1KOHM,J,1/16W	M 1KOHM,J,1/16W 1	
R1389	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R1390	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1391	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R1392	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1393	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R1394	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R1395	ERJ6ENF6800	M 680 OHM, 1/10W	1	
R1396	ERJ6ENF3301	M 3.3KOHM, 1/10W	1	
R1402	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1403	ERJ3GEYJ181	M 180 OHM,J,1/16W	1	
R1406	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R1407	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	DODITIONOU
R1408	ERJ3GEYJ152		1	
	_	M 1.5KOHM,J,1/16W		
R1409	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R1413	ERJ3GEYJ103	M 10KOHM, J,1/16W	1	
R1415	ERJ3GEYJ102	M 1KOHM, J,1/16W	1	
R1417,18	ERJ6ENF56R0	M 56 OHM, 1/10W	2	
R1419	ERJ6ENF2000	M 200 OHM, 1/10W	1	
R1425,26	ERJ6ENF9310	M 931 OHM, 1/10W	2	
R1429	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1430	ERJ6GEYJ821	M 820 OHM,J,1/10W	1	
R1431	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1433	ERJ6ENF47R0	M 47 OHM, 1/10W	1	
R1434,35	ERJ6GEY0R00	M 0 OHM,J,1/10W	2	
R1436	ERJ6ENF47R0	M 47 OHM, 1/10W	1	
R1437	ERJ6ENF1500	M 150 OHM, 1/10W	1	
R1440	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R1443	ERJ6ENF47R0	M 47 OHM, 1/10W	1	
R1447,48	ERJ6ENF1500	M 150 OHM, 1/10W	2	
R1451	ERJ6ENF5490	M 549 OHM, 1/10W	1	
R1452	ERJ6ENF4700	M 470 OHM, 1/10W	1	
R1453	ERJ3GEYJ180	M 18 OHM,J,1/16W	1	
R1454	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1455	ERJ3GEYJ391	M 390 OHM,J,1/16W	1	D0GB391JA002
R1457	ERJ6GEYJ124	M 120KOHM,J,1/10W	1	
R1458	ERJ6ENF6201	M 6.2KOHM, 1/10W	1	
R1459	ERJ6ENF4751	M4.75KOHM, 1/10W	1	
R1460	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R1465	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R1466	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R1467	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R1468	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R1471	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R1473	ERJ6GEYJ683	M 68KOHM,J,1/10W	1	
R1474	ERJ6GEYJ274	M 270KOHM,J,1/10W	1	
R1475	ERJ3GEYJ561	M 560 OHM,J,1/16W	1	
R1476	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1477	ERJ3GEYJ823	M 82KOHM,J,1/16W	1	
R1478	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1480,81	ERJ3GEYJ471	M 470 OHM,J,1/16W	2	
R1482	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1483	ERJ6GEYJ394	M 390KOHM,J,1/10W	1	
R1485	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1492	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1499	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R2004	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R2006-08	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	3	
R2015	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R2019	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R2025,26	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	2	
R2030,31	ERJ6GEY0R00	M 0 OHM,J,1/10W	2	
R2033-36	ERJ6GEY0R00	M 0 OHM,J,1/10W	4	
R2039,40	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	2	
R2041	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2042	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2043,44	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R2045	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	1	
R2051	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R2255	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2256,57	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R2258	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2290	ERDS2TJ562	C 5.6KOHM, J,1/4W	1	
R2291	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R2292,93	ERDS2TJ222	C 2.2KOHM, J,1/4W	2	
R2294,95	ERDS2TJ103	C 10KOHM, J,1/4W	2	
R2294,93	ERDS2TJ562		1	
R2290 R2297		C 5.6KOHM, J,1/4W	1	
R2301	ERDS2TJ103	C 10KOHM, J,1/4W	1	
	ERJ6GEYJ103	M 10KOHM, J,1/10W	2	
R2303,04	ERJ6GEYJ103	M 10KOHM,J,1/10W		
R2307,08	ERD25FJ2R2	C 2.2 OHM, J,1/4W	2	
R2309,10	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R2311	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R2312	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R2315	ERJ6GEYJ272	M 2.7KOHM,J,1/10W	1	
R2316	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	1	
R2317	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2318	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R2319	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R2321,22	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	2	
R2324-26	ERJ6GEY0R00	M 0 OHM,J,1/10W	3	
R2327	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2328	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	1	
R2330	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R2331	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2333	ER0S2CKF4702	M 47KOHM, F,1/4W	1	EROS2CKF4702
R2335	ERJ6ENF6802	M 68KOHM, 1/10W	1	
R2336	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2337	ERJ6ENF1202	M 12KOHM, 1/10W	1	
R2338,39	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	2	
R2340-42	ERJ6GEYJ103	M 10KOHM,J,1/10W	3	
R2343	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R2344	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2345	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R2346,47	ERJ6GEYJ223	M 22KOHM,J,1/10W	2	
R2348	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R2349	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R2350,51	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R2359	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R2362,63	ERDS2TJ103	C 10KOHM, J,1/4W	2	
R2367	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2370	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R2372	ERJ6ENF6202	M 62KOHM, 1/10W	1	
R2373	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2375	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R2379	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2380,81	ERDS2TJ222	C 2.2KOHM, J,1/4W	2	
R2382-84	ERJ6GEYJ103	M 10KOHM,J,1/10W	3	
R2391	ERJ6GEYJ183	M 18KOHM,J,1/10W	1	
R2392	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R2397	ERDS2TJ102	C 1KOHM, J,1/4W	1	
R2423	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2455	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R2483	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R2498	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R2499	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2562	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R2613	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R2724	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2725	ERJ6ENF1301	M 1.3KOHM, 1/10W	1	
R2726	ERJ6ENF4121	M4.12KOHM, 1/10W	1	
R2727	ERJ6ENF2151	M2.15KOHM, 1/10W	1	
R2728		·	1	
	ERJ6ENF1201	M 1.2KOHM, 1/10W	1	
R2731	ERJ6ENF2151	M2.15KOHM, 1/10W		
R2732	ERJ6ENF1201	M 1.2KOHM, 1/10W	1	
R3012,13	ERJ6GEYJ221	M 220 OHM,J,1/10W	2	
R3014	ERJ8ENF75R0	M 75 OHM, 1/8W	1	
R3015	ERJ6GEYJ184	M 180KOHM, J, 1/10W	1	
R3016	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R3017-20	ERJ6GEYJ221	M 220 OHM,J,1/10W	4	
R3021	ERJ6GEYJ184	M 180KOHM,J,1/10W	1	
R3022,23	ERJ6GEYJ221	M 220 OHM,J,1/10W	2	
R3024	ERJ8ENF75R0	M 75 OHM, 1/8W	1	
R3025-27	ERJ6GEYJ221	M 220 OHM,J,1/10W	3	
R3028	ERJ8ENF75R0	M 75 OHM, 1/8W	1	
R3029,30	ERJ6GEY0R00	M 0 OHM,J,1/10W	2	
R3031	ERJ6GEYJ683	M 68KOHM,J,1/10W	1	
R3033,34	ERJ6GEYJ221	M 220 OHM,J,1/10W	2	
R3037	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R3038	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R3044	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R3049	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R3050	ERJ6ENF5600	M 560 OHM, 1/10W	1	
R3051	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R3052,53	ERJ6GEYJ221	M 220 OHM,J,1/10W	2	
R3054	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R3055-58	ERJ6ENF75R0	M 75 OHM, 1/10W	4	
R3059	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R3062	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R3065	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3067	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R3068	ERJ6GEYJ102	M 1KOHM,J,1/10W 1		
R3071	ERJ6GEYJ221	M 220 OHM,J,1/10W 1		
R3073	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R3074	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R3076	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R3077-79	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	3	
R3084-90	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	7	
R3091-96	ERJ6ENF75R0	M 75 OHM, 1/10W	6	
R3116	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R3122	ERJ6GEYJ683	M 68KOHM, J,1/10W	1	
R3122	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R3124			1	
	ERJ6GEYJ681	M 400 OLIM J 4/40W	1	
R3125	ERJ6GEYJ101	M 100 OHM, J, 1/10W		
R3126	ERJ6GEYJ121	M 120 OHM,J,1/10W	1	
R3127	ERJ6GEYJ390	M 39 OHM,J,1/10W	1	
R3128	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R3129,30	ERJ6GEYJ561	M 560 OHM,J,1/10W	2	
R3326	ERJ6ENF6801	M 6.8KOHM, 1/10W	1	
R3355	ERDS2TJ392	C 3.9KOHM, J,1/4W	1	
R3356	ERDS2TJ822	C 8.2KOHM, J,1/4W	1	
R3357	ERDS2TJ392	C 3.9KOHM, J,1/4W	1	
R3365	ERDS2TJ392	C 3.9KOHM, J,1/4W	1	
R3366	ERDS2TJ822	C 8.2KOHM, J,1/4W	1	
R3367	ERDS2TJ392	C 3.9KOHM, J,1/4W	1	
R3375	ERDS2TJ392	C 3.9KOHM, J,1/4W	1	
R3376	ERDS2TJ822	C 8.2KOHM, J,1/4W	1	
R3377	ERDS2TJ392	C 3.9KOHM, J,1/4W	1	
R3421	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R3422	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R3455	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R3456	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R3457	ERJ6GEYJ750	M 75 OHM,J,1/10W	1	
R3458	ERJ8GEYJ331	M 330 OHM, J,1/8W	1	
R6704	ERF2AK5R6	W 5.6 OHM, K, 2W	1	
R7008	ERJ6GEYJ273	M 27KOHM,J,1/10W	1	
R7009	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R7010	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R7011	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R7012	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R7013	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R7014	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R7015	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R7016	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R7017	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R7018	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R7019	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R7020	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R7021	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R7021		M 27KOHM,J,1/10W		
	ERJ6GEYJ273		1	
R7023	ERJ6GEYJ472	M 4.7KOHM, J,1/10W	1	
R7024-29	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	6	
R7030	ERG2FJS121D	M 120 OHM, J, 2W	1	
R7031-33	ERG2FJS820D	M 82 OHM, J, 2W	3	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7034	ERG2FJS121D	M 120 OHM, J, 2W	1	
R7035	ERG2FJS820D	M 82 OHM, J, 2W	1	
R7036-39	ER0S2CKF10R0	M 10 OHM, F,1/4W	4	
R7040-47	ER0S2CKF20R0	M 20 OHM, F,1/4W	8	EROS2CKF20R0
R7048-51	ER0S2CKF10R0	M 10 OHM, F,1/4W	4	
R7052-59	ER0S2CKF20R0	M 20 OHM, F,1/4W	8	EROS2CKF20R0
R7060-63	ER0S2CKF10R0	M 10 OHM, F,1/4W	4	
R7064-71	ER0S2CKF20R0	M 20 OHM, F,1/4W	8	EROS2CKF20R0
R7080	ERX1SJR39	M0.39 OHM, J, 1W	1	
R7085	ERX1SJR39	M0.39 OHM, J, 1W	1	
R7090-95	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	6	
R7101-03	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	3	
R7104,05	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R7106-08	ERJ6ENF4702	M 47KOHM, 1/10W	3	
R7109	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R7111	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7114-17	ERJ6ENF4702	M 47KOHM, 1/10W	4	
R7118-21	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	4	
R7122	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7123	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R7124,25	ERJ6GEYJ330	M 33 OHM,J,1/10W	2	
R7126	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R7127	ERJ6ENF6200	M 620 OHM, 1/10W	1	
R7128	ERJ6ENF3001	M 3KOHM, 1/10W	1	
R7129	ERJ6GEYJ471	M 470 OHM, J,1/10W	1	
R7130	ERJ6GEYJ101		1	
R7131		M 100 OHM, J,1/10W	1	
	ERJ6GEYJ151	M 150 OHM, J,1/10W	2	
R7134,35	ERJ6GEYJ151	M 150 OHM,J,1/10W		
R7141	ERJ6GEYJ222	M 2.2KOHM, J,1/10W	1	
R7142	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7143	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R7144	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7145	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R7146	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7147	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R7148	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7149	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R7150	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7151	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R7152	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7153	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R7154	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7155	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R7157,58	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R7163,64	ERJ6GEYJ330	M 33 OHM,J,1/10W	2	
R7165-69	ERJ6GEYJ103	M 10KOHM,J,1/10W	5	
R7170-72	ERJ6GEYJ330	M 33 OHM,J,1/10W	3	
R7185	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7186	ERJ6GEYJ272	M 2.7KOHM,J,1/10W	1	
R7187	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7188	ERJ6ENF82R0	M 82 OHM, 1/10W	1	43 INCH MODEL
R7188	ERJ6GEYJ181	M 180 OHM,J,1/10W	1	51 INCH MODEL
R7189	ERJ6ENF2700	M 270 OHM, 1/10W	1	43 INCH MODEL
R7189	ERJ6GEYJ271	M 270 OHM,J,1/10W	1	51 INCH MODEL

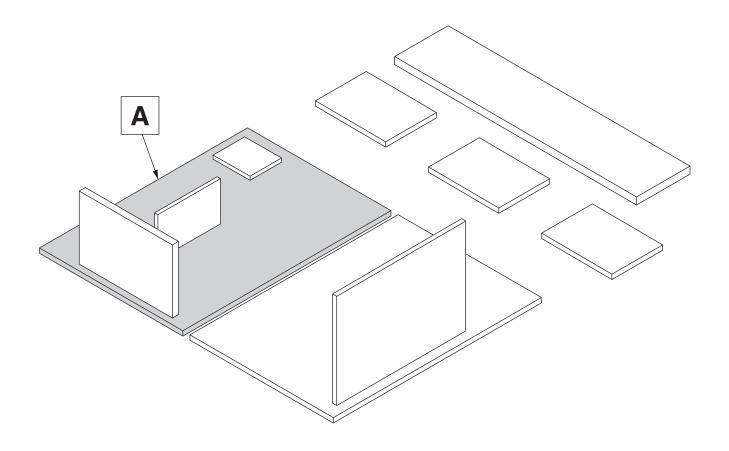
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7190	ERG1SJ820	M 82 OHM, J, 1W	·	
R7191	ERJ6ENF1202	M 12KOHM, 1/10W	· ·	
R7194,95	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	· ·	
R7196-98	ERJ6GEYJ271	M 270 OHM,J,1/10W	3	
R7701-03	ERJ6GEYJ221	M 220 OHM,J,1/10W	3	
R7705	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R7707	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R7709	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R7716	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7717-19	ERJ6GEY0R00	M 0 OHM,J,1/10W	3	
R7724-26	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	3	
R7727-29	ERJ6GEYJ221	M 220 OHM,J,1/10W	3	
R7733	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R7734	ER0S2CKF2490	M24.9 OHM, F,1/4W	1	EROS2CKF2490
R7735	ER0S2CKF1500		1	EROSZGRF2430
		M 150 OHM, F,1/4W		
R7736	ERJ6GEYJ330	M 33 OHM, J,1/10W	1	
R7737	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	ED COOKES (CO
R7738	ER0S2CKF2490	M24.9 OHM, F,1/4W	1	EROS2CKF2490
R7739	ER0S2CKF1500	M 150 OHM, F,1/4W	1	
R7740	ERJ6GEYJ330	M 33 OHM,J,1/10W	1	
R7741	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R7742	ER0S2CKF2490	M24.9 OHM, F,1/4W	1	EROS2CKF2490
R7743	ER0S2CKF1500	M 150 OHM, F,1/4W	1	
R7744	ERJ6GEYJ330	M 33 OHM,J,1/10W	1	
R7745	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R7746-48	ERJ6ENF1000	M 100 OHM, 1/10W	3	
R7750-52	ERJ6GEYJ103	M 10KOHM,J,1/10W	3	
R7753	ERJ6ENF3901	M 3.9KOHM, 1/10W	1	
R7754	ERJ6ENF4700	M 470 OHM, 1/10W	1	
R7755	ERJ6ENF2000	M 200 OHM, 1/10W	1	
R7756	ERJ6ENF1000	M 100 OHM, 1/10W	1	
R7757	ERJ6ENF1201	M 1.2KOHM, 1/10W	1	
R7758-61	ERJ6GEYJ103	M 10KOHM,J,1/10W	4	
R7762	ERJ6GEYJ563	M 56KOHM,J,1/10W	1	
R7763	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7765	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	1	
R7766,67	ERJ6GEY0R00	M 0 OHM,J,1/10W	2	
R7771	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R7772	ERJ6GEYJ123	M 12KOHM,J,1/10W	1	
R7773	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R7776-78	ERJ6GEYJ471	M 470 OHM,J,1/10W	3	
R7779	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R7780	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R7781	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R7782	ERJ6ENF39R0	M 39 OHM, 1/10W	1	43 INCH MODEL
R7782	ERJ6ENF47R0	M 47 OHM, 1/10W	1	51 INCH MODEL
R7788	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R7789	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R7790	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R7791	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R7792	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R7793	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R7794	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R7795-97	ER0S2CKF1500	M 150 OHM, F,1/4W	3	
	1			

Ref. No.	Part No.	Part Name & Description Po		Remarks
R7801	ERJ6ENF2700	M 270 OHM, 1/10W	1	
R7802	ERJ6ENF3300	M 330 OHM, 1/10W	1	
R7803	ERJ6ENF2200	M 220 OHM, 1/10W	OHM. 1/10W 1	
R7804	ERJ6ENF6800	M 680 OHM, 1/10W	1	
R7805	ERJ6ENF2700	M 270 OHM, 1/10W	1	
R7806	ERJ6ENF3300	M 330 OHM, 1/10W	1	
R7807	ERJ6ENF2200	M 220 OHM, 1/10W	1	
R7808	ERJ6ENF6800	M 680 OHM, 1/10W	1	
R7809	ERJ6ENF2700	M 270 OHM, 1/10W	1	
R7810	ERJ6ENF3300	M 330 OHM, 1/10W	1	
R7811	ERJ6ENF2200	M 220 OHM, 1/10W	1	
R7812	ERJ6ENF6800	M 680 OHM, 1/10W	1	
R9301	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R9305	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R9318			1	
	ERJ6GEYJ152	M 1.5KOHM,J,1/10W		
R9319	ERJ6GEYJ151	M 150 OHM,J,1/10W	1	
R9320	ERJ6GEYJ393	M 39KOHM,J,1/10W	1	
R9602	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R9603	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R9604-06	ERJ6GEYJ102	M 1KOHM,J,1/10W	3	
R9607	ERG2FJS222D	M 2.2KOHM, J, 2W	1	
R9608	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R9609	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R9610	ERJ6ENF1501	M 1.5KOHM, 1/10W	1	
R9611-15	ERG2FJS333D	M 33KOHM, J, 2W	5	
R9616	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R9617	ERJ6ENF2801	M 2.8KOHM, 1/10W	1	
R9618	ERJ6ENF2741	M2.74KOHM, 1/10W	1	
R9619	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R9620	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R9621	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R9622	ERC12GK103	S 10KOHM, K,1/2W	1	
R9623	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R9624	ERJ6ENF1500	M 150 OHM, 1/10W	1	
R9625	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R9626	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R9627	ERJ6ENF2742	M27.4KOHM, 1/16W	1	
RL801	K6B1ADA00010	RELAY	1	A
RL802	TSEH8011	RELAY	1	K6B1AGA00043 🗥
RL3401	TSEH8017	SWITCH	1	K6B2CFA00015
KL3401	ISENOUI/	SWITCH	'	K0B2CFA00015
RM1001	PNA4601M04TV	REMOTE CONTROL RECEIVER	1	
RTL	TZTNP010GAV	CIRCUIT BOARD A	1	<u>^</u> TX-51P250HM/HQ/HZ/X
RTL	TZTNP010GEV	CIRCUIT BOARD A	1	<b>△</b> TC-51P250H
RTL	TZTNP010GQV	CIRCUIT BOARD A	1	<u></u> Фтс-43Р250Н
RTL	TZTNP020GLV	CIRCUIT BOARD A	1	⚠ TX-43P250HM/HQ/HZ/X
RTL	TZTNP030GAV	CIRCUIT BOARD D	1	<b>≜</b> TC-51P250H, TX-51P250HM
RTL	TZTNP010GCV	CIRCUIT BOARD D	1	/HQ
	.2.141 010001	CCOIT BOARD D		<u>^</u> TX-51P250HZ

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
RTL	TZTNP010GDV	CIRCUIT BOARD D	1	<b>△</b> TX-51P250X
RTL	TZTNP010GLV	CIRCUIT BOARD D	1	<u>↑</u> TC-43P250H, TX-43P250HM /HQ
RTL	TZTNP010GNV	CIRCUIT BOARD D	1	<u></u>
RTL	TZTNP010GPV	CIRCUIT BOARD D	1	
RTL	TNPA1970AG	CIRCUIT BOARD H	1	<u>A</u>
RTL	TNPA2316	CIRCUIT BOARD P	1	
RTL	TNPA2316 AB	CIRCUIT BOARD P	1	<b>∆</b> TX-51P250HZ
RTL	TNPA2316 AC	CIRCUIT BOARD P	1	△TX-51P250X
RTL	TNPA2316 AE	CIRCUIT BOARD P	1	△TC-43P250H, TX-43P250HM
RTL	TNPA2316 AF	CIRCUIT BOARD P	1	
RTL	TNPA2316AG	CIRCUIT BOARD P	1	
RTL	TZTNP020GAV	CIRCUIT BOARD U	1	△TX-51P250HM/HQ/HZ/X
RTL	TZTNP020GEV	CIRCUIT BOARD U	1	
RTL	TNPA2042AV	CIRCUIT BOARD U	1	
RTL	TNPA2042AU	CIRCUIT BOARD U	1	△ TX-43P250HM/HQ/HZ/X
RTL	TXNDG10GAV	CIRCUIT BOARD DG	1	<u>A</u>
RTL	TNPA2332	CIRCUIT BOARD LR	1	
RTL	TNPA2332AC	CIRCUIT BOARD LR	1	△43 INCH MODEL
RTL	TNPA2333	CIRCUIT BOARD LG	1	△ 51 INCH MODEL
RTL	TNPA2333AC	CIRCUIT BOARD LG	1	△43 INCH MODEL
RTL	TNPA2334	CIRCUIT BORD LB	1	△ 51 INCH MODEL
RTL	TNPA2334AC	CIRCUIT BOARD LB	1	△43 INCH MODEL
RTL	TNPA2315	CIRCUIT BOARD M	1	△ A
S840	ESB92S11B	SWITCH	1	<b>A</b>
S1003-07	EVQ23405R	SWITCH	5	EVQ81F05R
T504	ETUANKAN AV	H DRIVE TRANS	4	
T501 T551	ETH19K135AY KFT7AA334F1	H DRIVE TRANS FLYBACK TRANS	1	Δ
T801	ETS42AE2X6AC	POWER TRANS	1	△
T881	TLPA078	REMOCON TRANS	1	
T882	ETS19AB186AG	REMOCON TRANS	1	X VERSION A
				EX X VERSION 🗥
TNR001	ENGF9103G	TUNER	1	Δ
TNR002	ENG39607G	TUNER	1	Δ
U1,U2	K1KB30A00092	30P CONNECTOR	2	
X1301,02	TSSA171	CRYSTAL	2	
X2101	TSSA128	CRYSTAL	1	H0D184500008

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks

## 18. Schematic Diagram for printing with A4 size



## **Parts Location**

				A-BOARD	(FOIL SIDE)				
IC		IC7121	D-2	Q2305	D-4	TP7	F-6	TPA15	F-4
		IC7702	B-4	Q2306	E-3	TP8	E-6	TPA15	G-3
IC051	D-6	IC7703	C-3	Q2307	D-5	TP9	E-3	TPA17	C-4
IC052	E-5	IC9351	C-2	Q2308	E-4	TP10	E-3	TPA18	B-2
IC501	G-2	TRANSISTO	R	Q2309	D-5	TP11	C-5	TPA19	,e-3
IC1104	C-4		1	Q2310	D-6	TP12	G-5	TPA20	G-3
IC1105	C-5	Q001	F-5	Q2311	D-6	TP13	G-5	TPA21	G-3
IC1108	A-1	Q002	F-5	Q2312	D-5	TP14	G-4	TPA22	D-2
IC1251	D-4	Q051	E-5	Q2534	D-2	TP15	H-4	TPA23	C-2
IC1252	B-4	Q052	E-6	Q3007	F-4	TP16	H-4	TPA36	C-5
IC1315	D-3	Q460	G-2	Q3011	F-4	TP17	G-1	TPA37	C-5
IC2001	E-4	Q462	G-1	Q3130	G-3	TP18	E-2		
IC2301	C-6	Q463	F-3	Q3808	C-2	TP19	E-1		
IC2302	A-3	Q1106	B-3	Q7102	E-2	TP20	B-5		
IC2705	C-1	Q1107	B-4	Q7103	E-2	TP21	B-5		
IC2706	A-1	Q1115	B-5	Q7705	C-2	TP22	B-4		
IC2707	B-1	Q1121	D-4	Q7706	B-3	TP23	A-2		
IC2708	C-2	Q1336	C-2	Q7707	B-2	TD 4		1	
IC2709	C-1	Q1337	C-2	Q7708	B-3	TPA			
IC2710	F-4	Q1341	C-2	Q7709	B-2	TPA1	D-5		
IC3001	F-5	Q1342	C-2	Q7710	B-3	TPA2	C-3		
IC3002	G-3	Q2002	E-4	Q7711	C-4	TPA3	D-5		
IC3004	F-2	Q2003	D-4	Q7713	C-3	TPA6	A-1		
IC3005	F-2	Q2006	E-5	Q7714	C-3	TPA7	A-2		
IC7101	F-2	Q2007	E-5	Q7715	B-3	TPA9	D-5		
IC7102	D-1	Q2041	E-4	Q7716	C-3	TPA10	F-5		
IC7105	E-2	Q2301	D-5			TPA11	E-6		
IC7108	F-2	Q2302	A-2	TP		TPA12	D-6		
IC7109	F-1	Q2303	B-2	TP5	F-5	TPA13	D-5		
IC7110	E-2	Q2304	D-5	TP6	F-5	TPA14	F-5		

## **Parts Location**

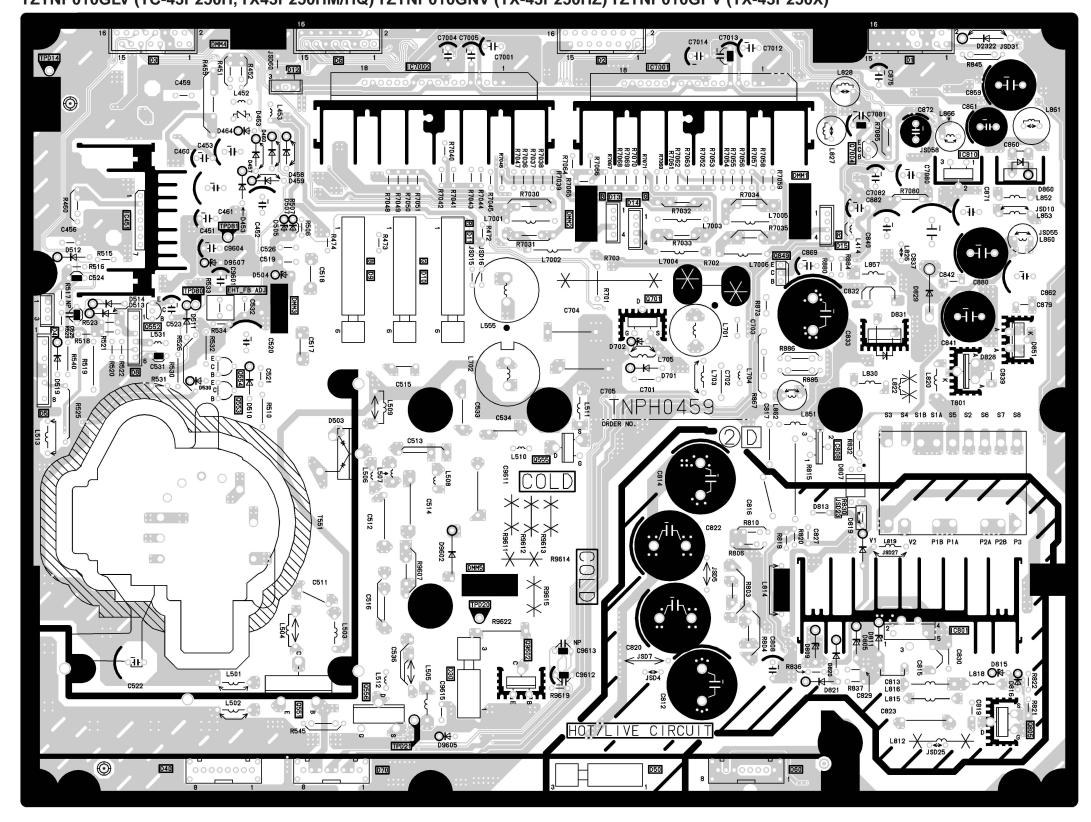
		DO 4 DD (001	ADONENT OID	-\					
A-BOARD (COMPONENT SIDE)									
IC		TRANSISTOR		Q7718	F-3				
IC051	D-6	Q461	B-1	Q7719	F-3				
IC051	D-6 D-5	Q1112	A-4	Q7720	F-2				
	D-5 A-2	Q1112 Q1113	A-5	Q7721	F-2				
IC459	A-2 F-4	Q1113 Q1114	A-4	Q7722	F-3				
IC1104		Q1114 Q1122	E-4	Q7723	F-2				
IC1105	F-5	Q2001	E-4 E-4	Q7724	F-2				
IC1107	F-5		D-4	Q7725	F-2				
IC1108	G-1	Q2004		Q9301	D-2				
IC1109	C-3	Q2005	D-5	Q9302	D-2				
IC1251	E-4	Q2008	D-5	TPA					
IC1252	F-4	Q2040	B-3	IPA					
IC1253	C-3	Q2042	C-4	TPA2	F-3				
IC1254	F-6	Q2043	C-4	TPA23	E-2				
IC2301	F-6	Q3006	B-4						
IC2302	G-3	Q3071	A-3						
IC2705	E-1	Q3072	B-3						
IC2706	G-1	Q3131	B-3						
IC2707	F-1	Q3132	B-3						
IC2708	F-1	Q3807	F-2						
IC2709	F-1	Q7101	C-2						
IC2710	C-4	Q7701	F-2						
IC3003	B-3	Q7702	F-3						
IC7103	D-2	Q7703	F-3						
IC7104	C-2	Q7704	F-3						
IC7106	B-2	Q7707	G-2						
IC7107	D-1	Q7708	G-3						
IC9351	E-3	Q7709	G-2						
		Q7712	E-2						
		Q7717	F-2						

## D-BOARD (COMPONENT SIDE) TZTNP030GAV TZTNP030GAV (TC-51P250H, TX-51P250HM/HQ) TZTNP010GCV (TX-51P250HZ) TZTNP010GDV (TX-51P250X) TZTNP010GLV (TC-43P250H, TX43P250HM/HQ) TZTNP010GNV (TX-43P250HZ) TZTNP010GPV (TX-43P250X)

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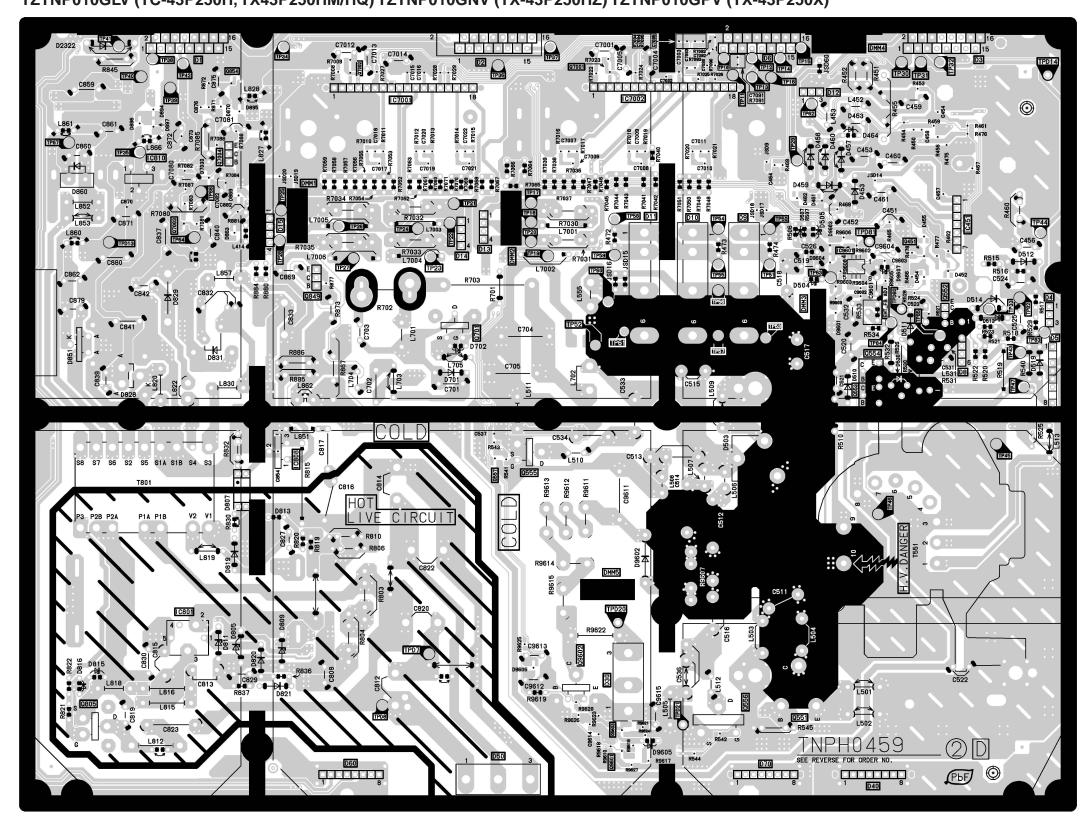
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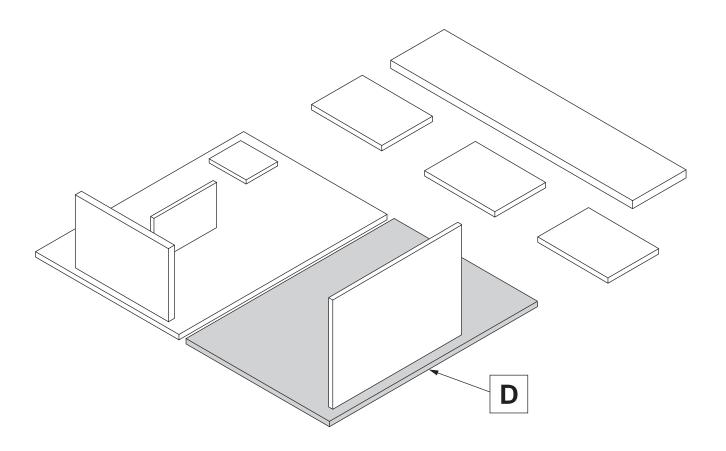
G

D-BOARD (FOIL SIDE)
TZTNP030GAV (TC-51P250H, TX-51P250HM/HQ) TZTNP010GCV (TX-51P250HZ) TZTNP010GDV (TX-51P250X)
TZTNP010GLV (TC-43P250H, TX43P250HM/HQ) TZTNP010GNV (TX-43P250HZ) TZTNP010GPV (TX-43P250X)

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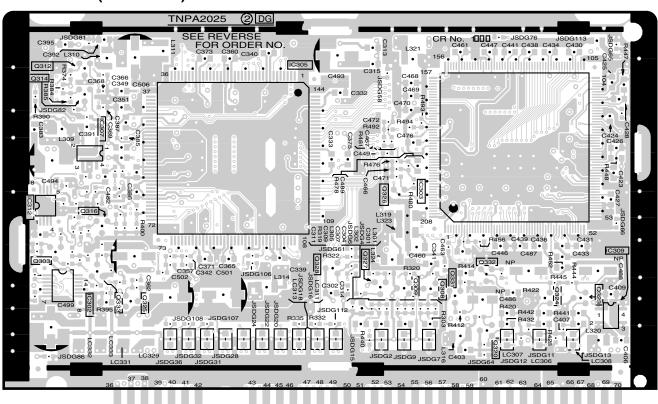
### **Parts Location**

			D-BOARD	(FOIL SIDE)			
IC		TP		TP38	B-6	TP85	G-4
IC451	G-5	TP10	E-6	TP39	B-5	TPD	
IC801	B-2	TP11	F-5	TP40	A-6	TPD7	C-2
IC808	C-3	TP12	F-6	TP41 TP42	A-6 B-6	TPD8	C-1
IC810	B-5	TP13	F-6	TP42	G-4	TPD13	A-4
IC7001	C-5	TP14	F-6	TP43	H-5	TPD14	H-6
IC7002	E-5	TP15	F-6	TP45	G-3	TPD20	E-2
IC9601	F-4	TP16	F-6	TP45	G-3	TPD21	E-1
TRANSISTO	DD.	TP17	D-5	TP47	G-3 G-4	TPD80	G-4
TRANSIST	JK	TP18	D-5	TP50	F-5	TPD81	F-5
Q451	G-5	TP19	D-4	TP51	F-4		
Q551	F-1	TP20	D-5	TP52	D-4		
Q552	G-4	TP21	D-5	TP53	F-4		
Q553	F-4	TP22	D-5	TP54	E-5		
Q554	F-4	TP23	D-4	TP55	E-4		
Q555	D-3	TP24	C-5	TP56	E-4		
Q556	F-1	TP25	C-5	TP57	E-4		
Q557	D-3	TP26	C-5	TP58	E-5		
Q701	D-4	TP27	C-4	TP59	E-4		
Q805	A-1	TP28	B-4	TP60	E-4		
Q849	C-4	TP29	F-5	TP61	E-4		
Q854	B-6	TP30	G-6	TP62	F-5		
Q7001	D-6	TP31	G-6	TP63	F-4		
Q7002	C-6	TP32	G-6	TP64	B-5		
Q7003	B-5	TP33	G-4	TP66	B-5		
Q7004	B-5	TP34	C-6	TP67	A-5		
Q9601	E-1	TP35	A-5	TP82	G-4		
Q9602	D-2	TP36	D-6	TP83	G-4		
Q9603	E-1	TP37	D-6	TP84	F-4		

### **Parts Location**

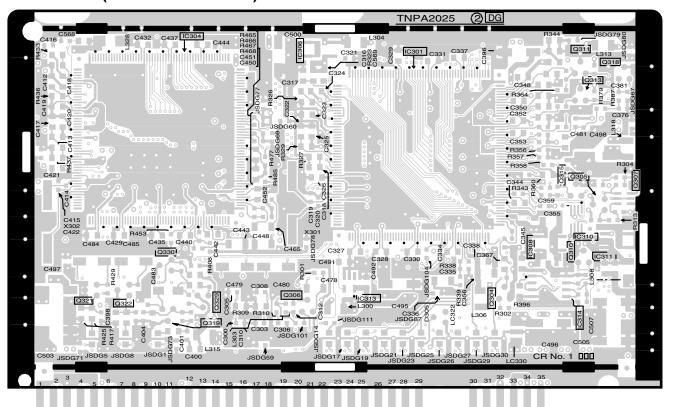
D-BOARD (COMPONENT SIDE)						
IC		TRANSISTO	TRANSISTOR			
IC451 IC801 IC808 IC810 IC7001 IC7002	A-5 G-2 F-3 G-5 E-6 C-6	Q551 Q552 Q553 Q554 Q555 Q556 Q701 Q805 Q849 Q7004 Q9602	C-1 B-4 B-3 B-4 D-3 C-2 E-4 G-1 F-4 F-5 D-2	TPD14 TPD20 TPD21 TPD80 TPD81	A-6 D-2 C-1 B-4 B-5	

### DG-BOARD (FOIL SIDE) TXNDG10GAV



# DG

### **DG-BOARD (COMPONENT SIDE) TXNDG10GAV**



### **Parts Location**

DG-BOARD						
IC	IC		TRANSISTOR		B-1	
IC1301 IC1302 IC1303 IC1304 IC1305 IC1306 IC1307 IC1308 IC1309 IC1310 IC1311 IC1312 IC1313 IC1314	C-3 A-4 D-5 B-3 C-6 C-3 A-6 D-2 E-5 E-2 E-2 A-5 C-1 E-1	Q1303 Q1304 Q1305 Q1306 Q1307 Q1308 Q1309 Q1310 Q1311 Q1312 Q1313 Q1314 Q1315 Q1316 Q1316	A-5 D-1 E-2 C-1 E-2 D-4 D-4 E-2 E-3 A-6 E-3 A-6 E-3 A-6 D-2 A-5 E-3	Q1320 Q1321 Q1322 Q1323 Q1324 Q1325 Q1326 Q1327 Q1328 Q1329 Q1330 Q1331 Q1332 Q1333	D-4 A-1 B-1 E-4 D-4 B-4 C-5 C-5 C-5 B-1 B-2 D-5 D-5 B-4	

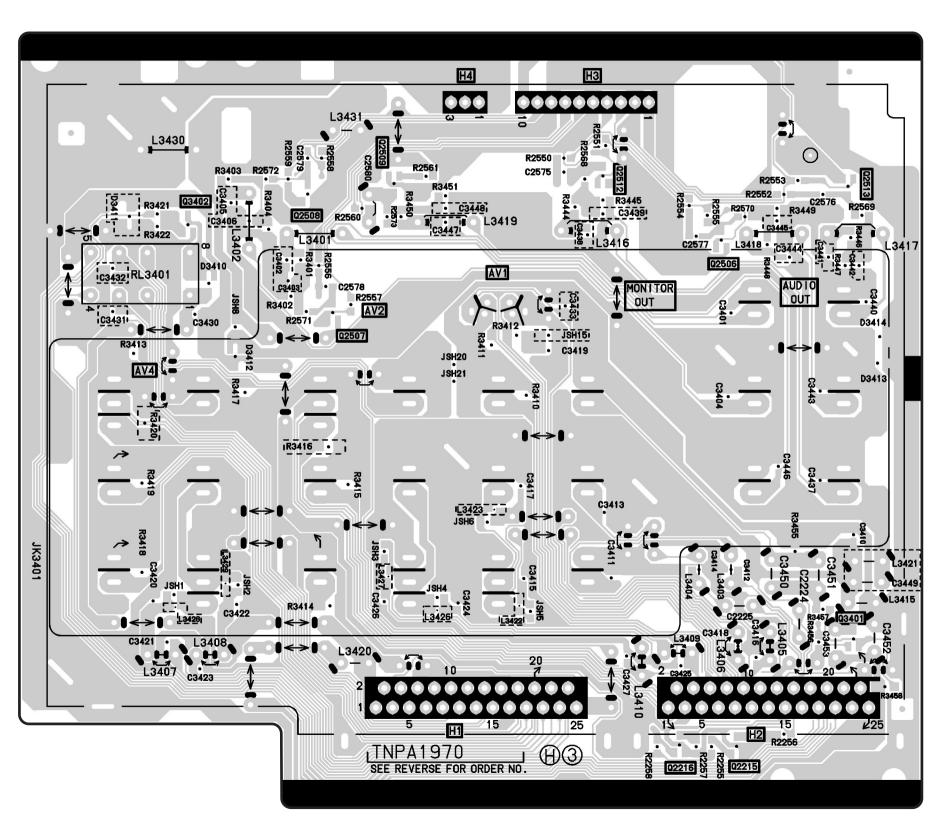
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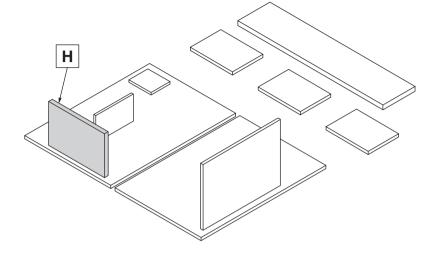
В

С



D

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### **Parts Location**

G

H-BOARD					
TRANSISTOR					
Q2215 F-1					
Q2216	E-1				
Q2506	E-4				
Q2507	C-4				
Q2508	C-5				
Q2509	C-5				
Q2512	E-5				
Q2513	F-5				
Q3401	F-2				
Q3402	B-5				

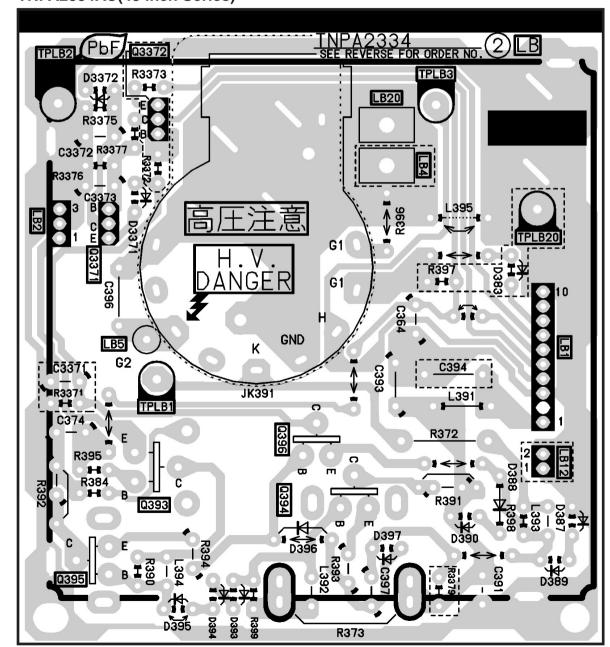
### **Parts Location**

	LB-BOARD				
TRANSISTOR		TPLB			
Q393	B-2	TPLB1	B-2		
Q394	C-2	TPLB2	A-5		
Q395	A-1	TPLB3	D-5		
Q396	C-2	TPLB20	D-3		
Q3371	A-3				
Q3372	B-5				

LB-BOARD
TNPA2334 (51 inch Series)
TNPA2334AC(43 inch Series)

3

2



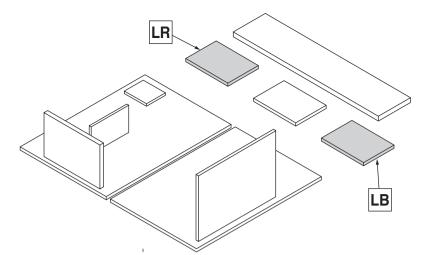
С

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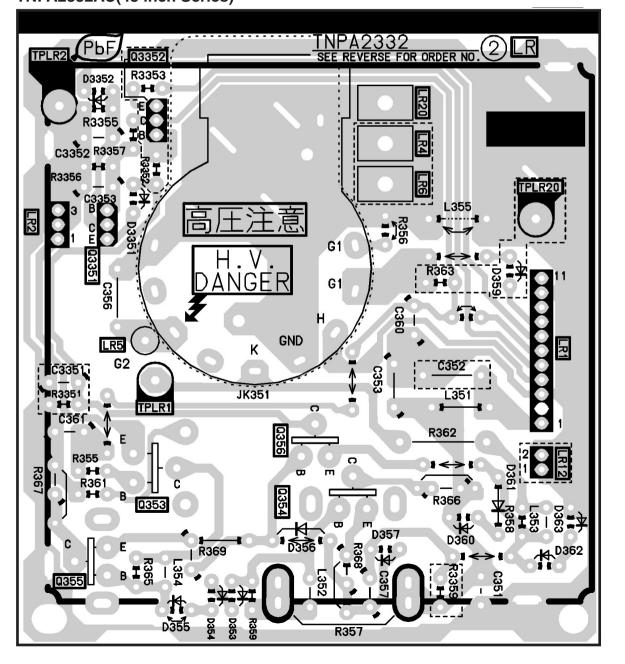
### **Parts Location**

LR-BOARD				
TRANSISTO	R	TPLR		
Q353	F-2	TPLR1	F-2	
Q354	G-2	TPLR2	E-5	
Q355	E-1	TPLR20	I-4	
Q356	G-2			
Q3351	F-3			
Q3352	F-5			



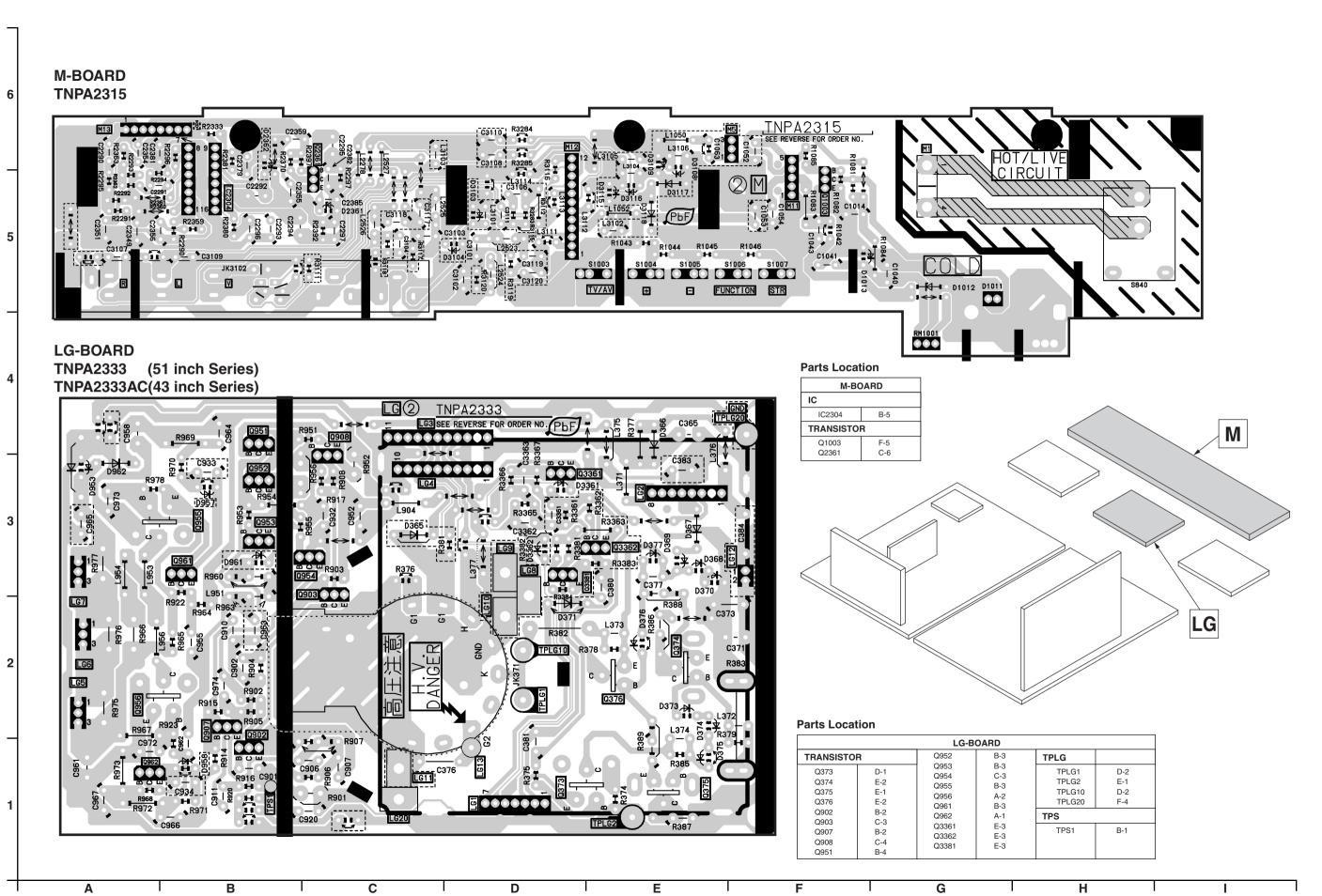
**LR-BOARD** 

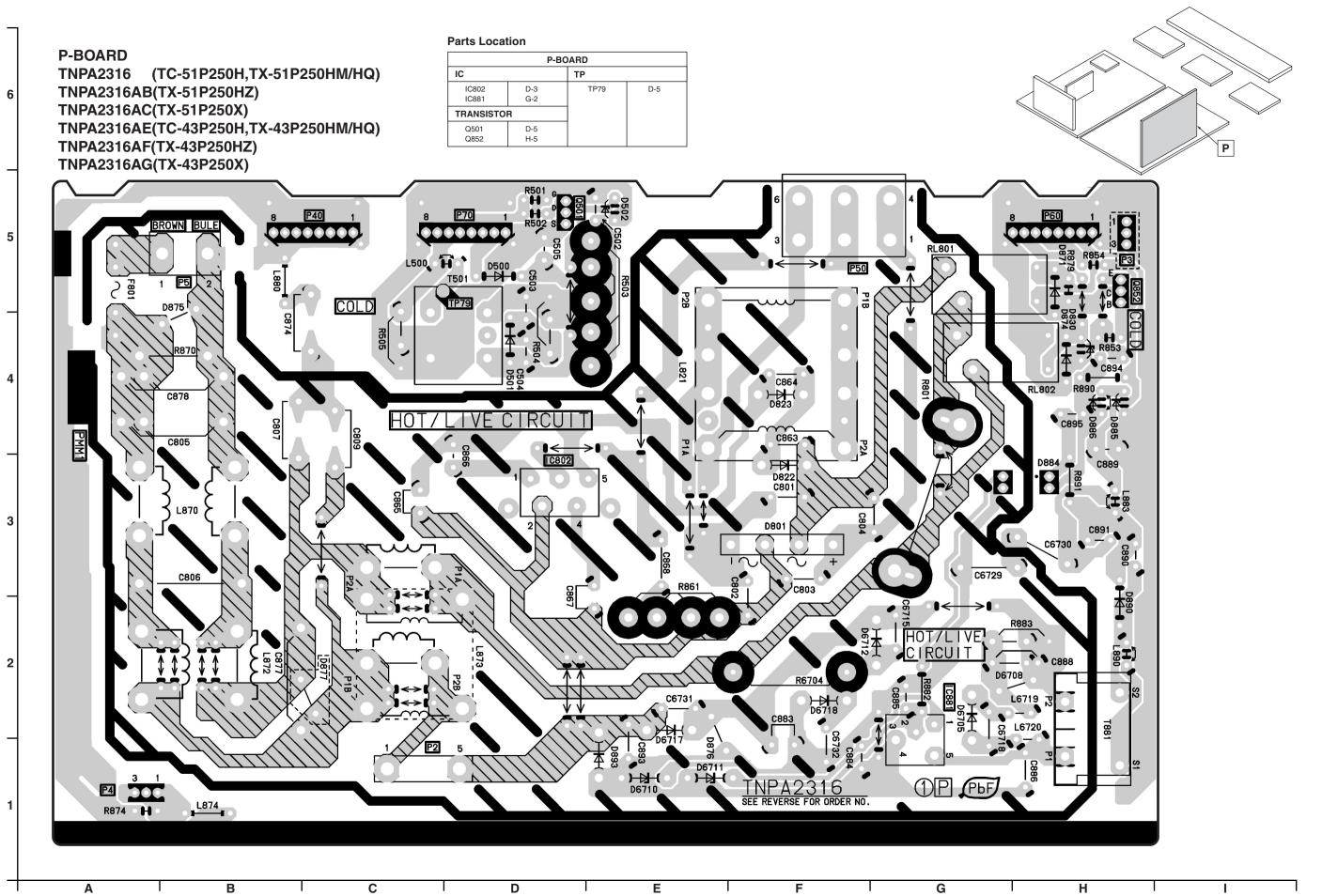
TNPA2332 (51 inch Series) TNPA2332AC(43 inch Series)

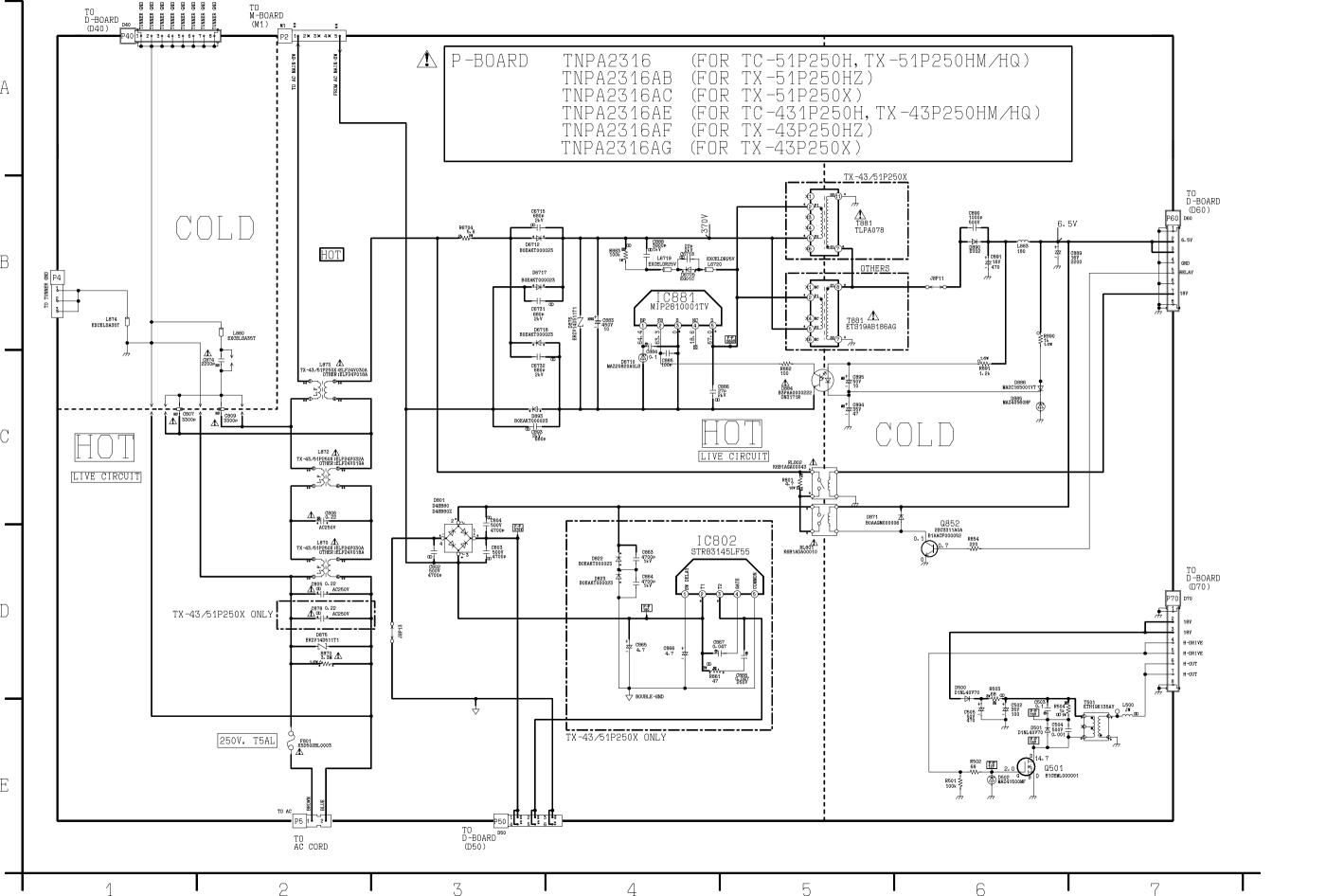


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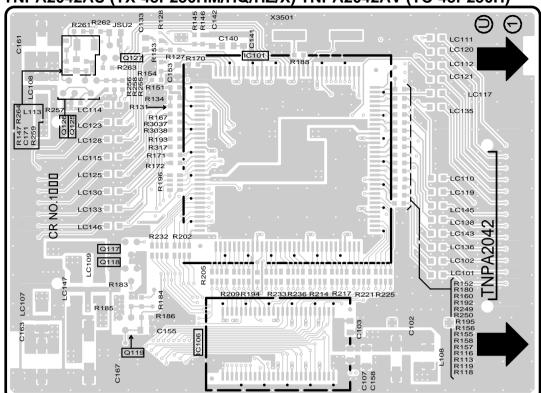
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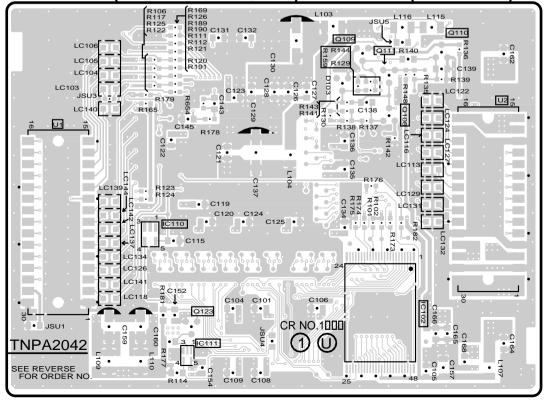


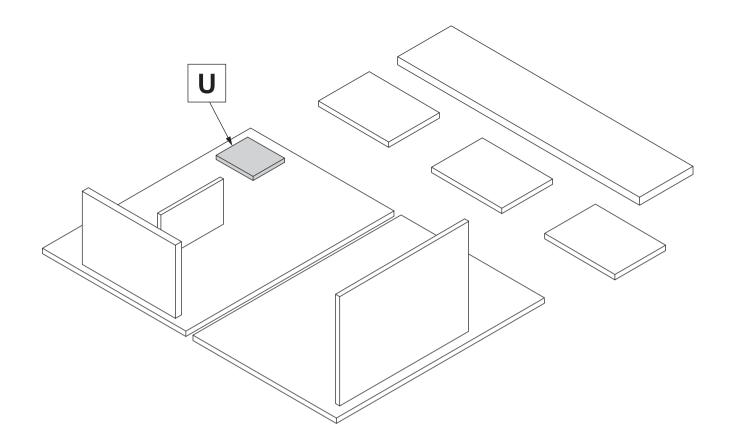


### U-BOARD (FOIL SIDE) TZTNP020GAV (TX-51P250HM/HQ/HZ/X) TZTNP020GEV (TC-51P250H) TNPA2042AU (TX-43P250HM/HQ/HZ/X) TNPA2042AV (TC-43P250H)



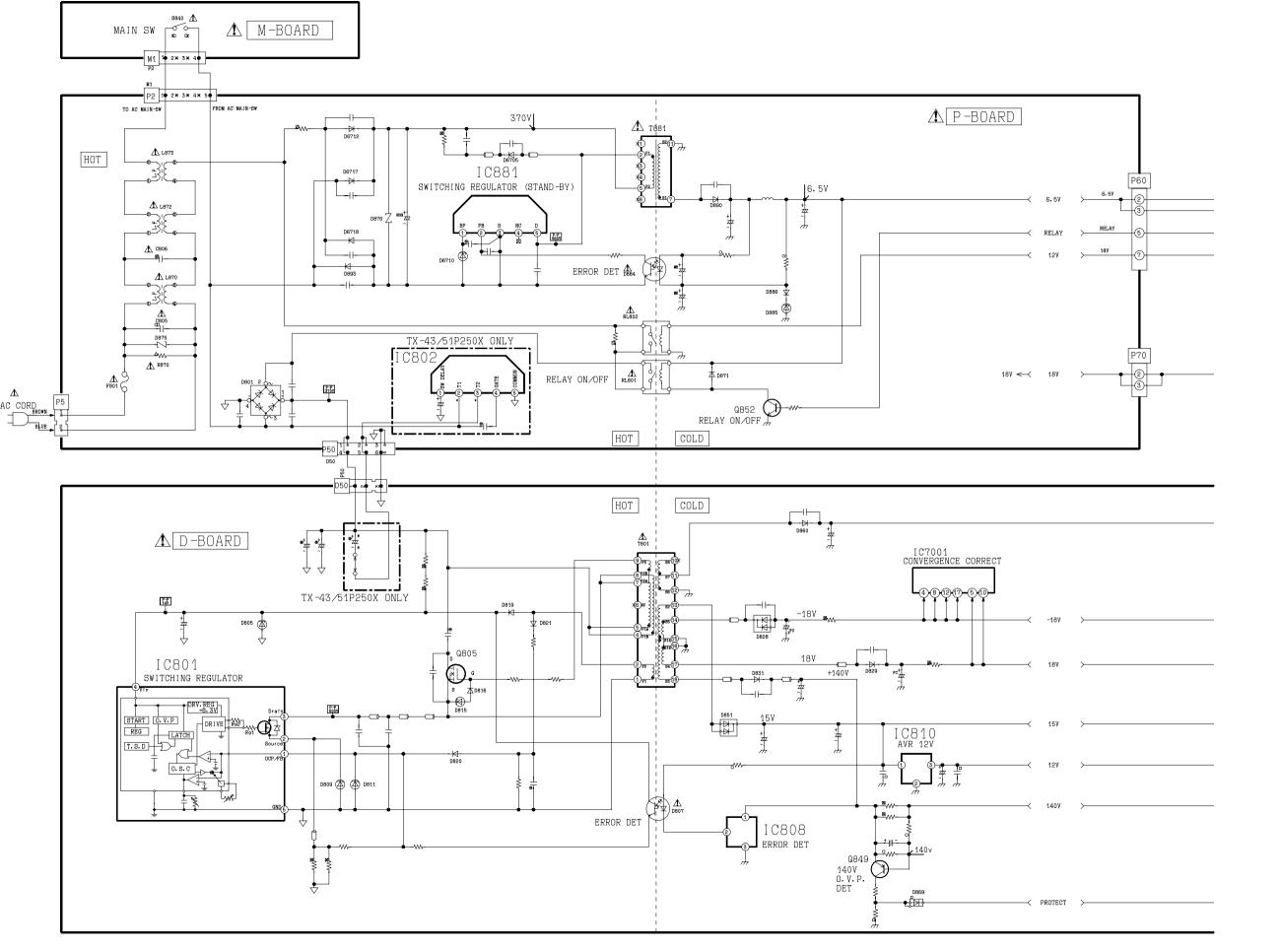
U-BOARD (COMPONENT SIDE) TZTNP020GAV (TX-51P250HM/HQ/HZ/X) TZTNP020GEV (TC-51P250H) TNPA2042AU (TX-43P250HM/HQ/HZ/X) TNPA2042AV (TC-43P250H)

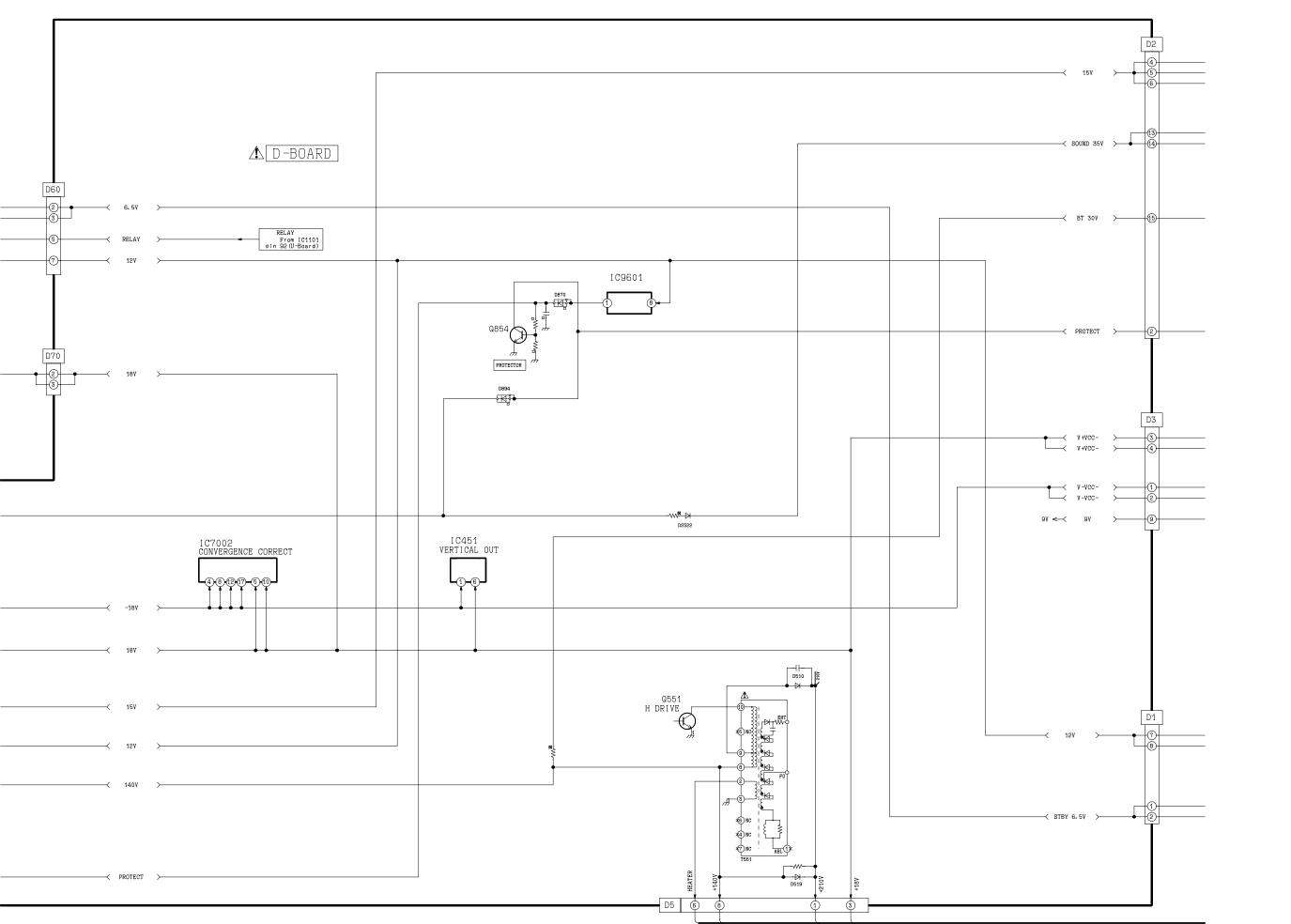


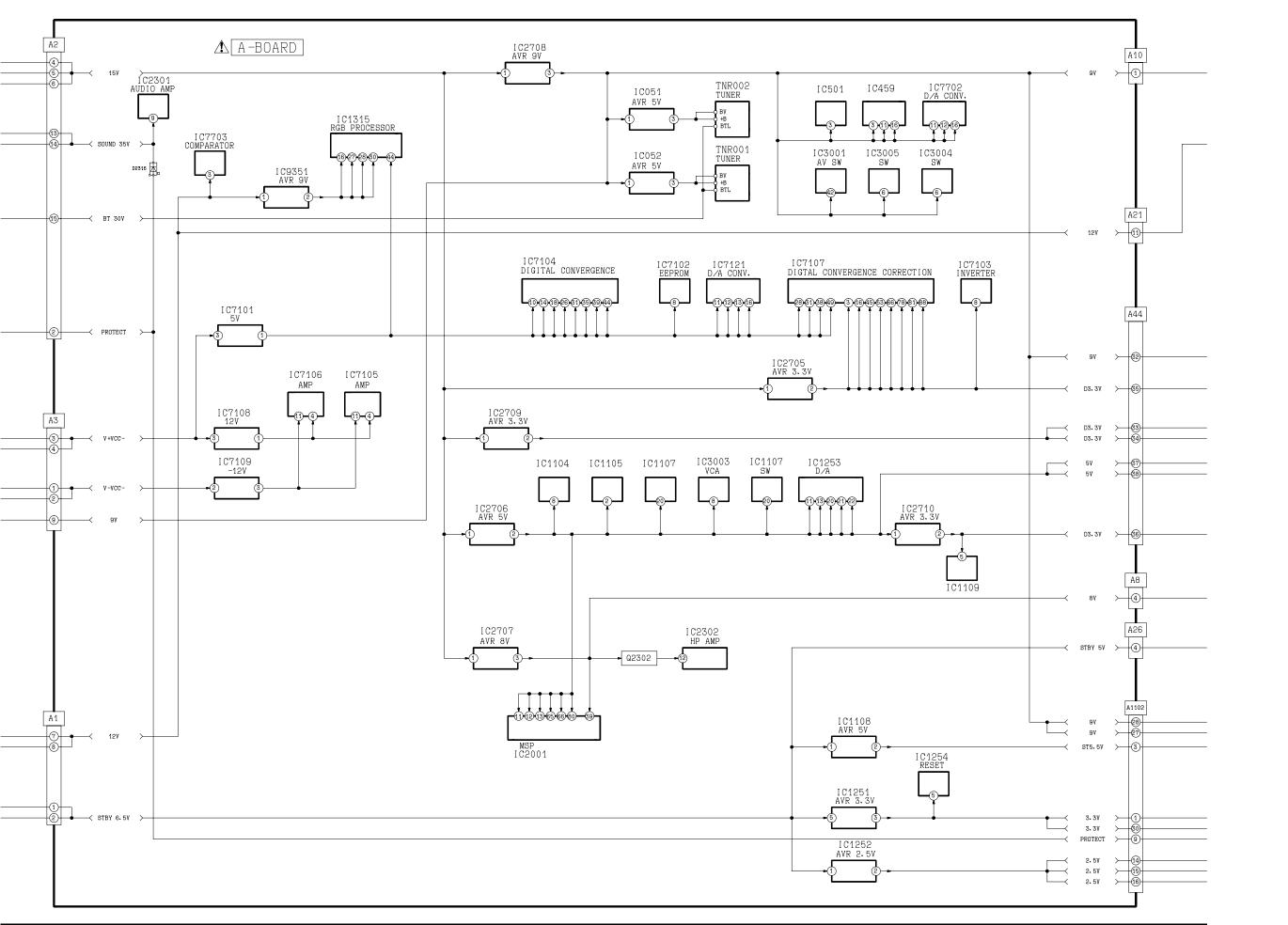


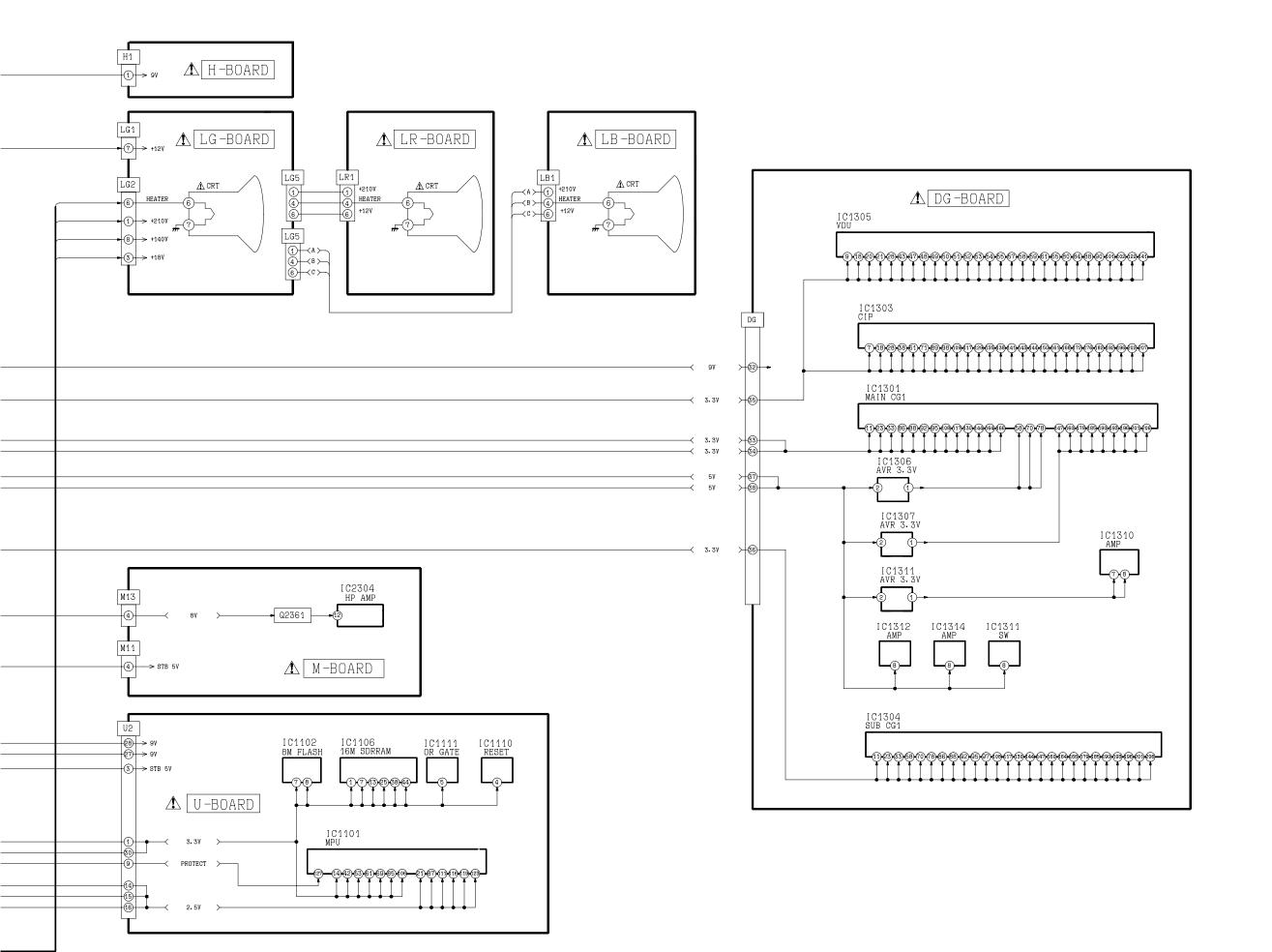
### **Parts Location**

U-BOARD					
IC		TRANSISTO	R		
IC1101	B-6	Q1108	C-3		
IC1102	C-1	Q1109	C-3		
IC1106	B-4	Q1110	D-3		
IC1110	B-2	Q1111	C-3		
IC1111	B-1	Q1117	A-5		
		Q1118	A-5		
		Q1119	B-4		
		Q1123	B-1		
		Q1125	A-5		
		Q1126	A-5		
		Q1127	B-6		











notice.

# 14.1. Schematic Diagram Notes

		Important Safety Notice —————					
		Components identified by $\Delta$ mark have special characteristics important for sa When replacing any of these components, use only manufacture's specified page 1.					
Note	es:						
1.		r					
•		ors are cabon 1/4W resistor, ι	inless marked as follow	NS.			
		esistance is OHM [ $\Omega$ ] (K=1,00)					
		: Nonflammable	•	: Metal Oxide			
	~	: Solid		: Metal Film			
	$\triangle$	: Wire Wound	<del></del>				
2.	☑ Capacite		$\otimes$	: Fuse <b>:</b>			
۷.	•		tar unlass marked as f	allows:			
		citors are ceramic 50V capacit		ollows.			
		apacitance is μF, unless other		. Electrolytic			
	$\otimes$	: Temperature Compensation		: Electrolytic			
	M	: Polyester	NP H	: Bipolar			
	<u></u>	: Metalized Polyester	(T)	: Dipped Tantalum			
_		: Polypropylene	$\bigcirc$	: Z-Type			
3.	Coil						
		iductance is $\mu F,$ unless otherv	vise noted.				
4.	Test Poi						
	φ	: Test Point position					
5.	Earth Sy						
		: Chassis Earth (Cold)	$\downarrow$	: Line Earth (Hot)			
6.		Measurement	•				
	Voltage i	is measured by a DC voltmete	∍r.				
	Condition	ns of the measurement are the	e following:				
		Power Source					
		TX-43/51P250HM/HC	Q/HZ,TC-51P250H: AC	220V-240V, 50/60Hz			
		TX-43/51P250X	: AC	110V-240V, 50/60Hz			
		Receiving Signal	Co	olour Bar signal (RF)			
		All customer's controls					
7.	Number	in red circle indicates wavefor		·			
	(See way	veform pattern table.)					
8.		row mark ( 🖊 ) is found, conn	ection is easily found fr	rom the direction of arrow			
9	Indicates	the major signal flow	Video → Audi	io 🖒			

10. This schematic diagram is the latest at the time of printing and subject to change without

### Remarks:

1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.

The circuit is defined by HOT and COLD indications in the schematic diagram. Take the follwing precautions.

All circuits, except the Power Circuit, are cold.

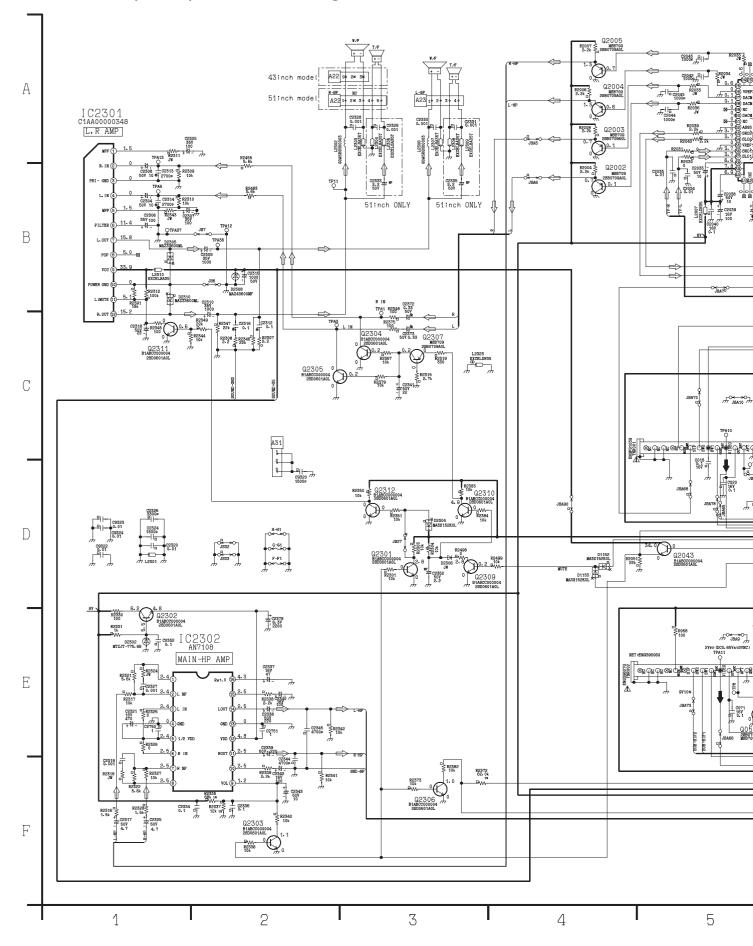
### Precautions

- a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
- b. Do not short- circuit the hot and cold circuits or a fuse may blow and parts may break.
- c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
   Connect the earth of instruments to the earth connection of the circuit being measured.
- d. Make sure to disconnect the power plug before removing the chassis.
- 2. Following diodes are interchangeable.

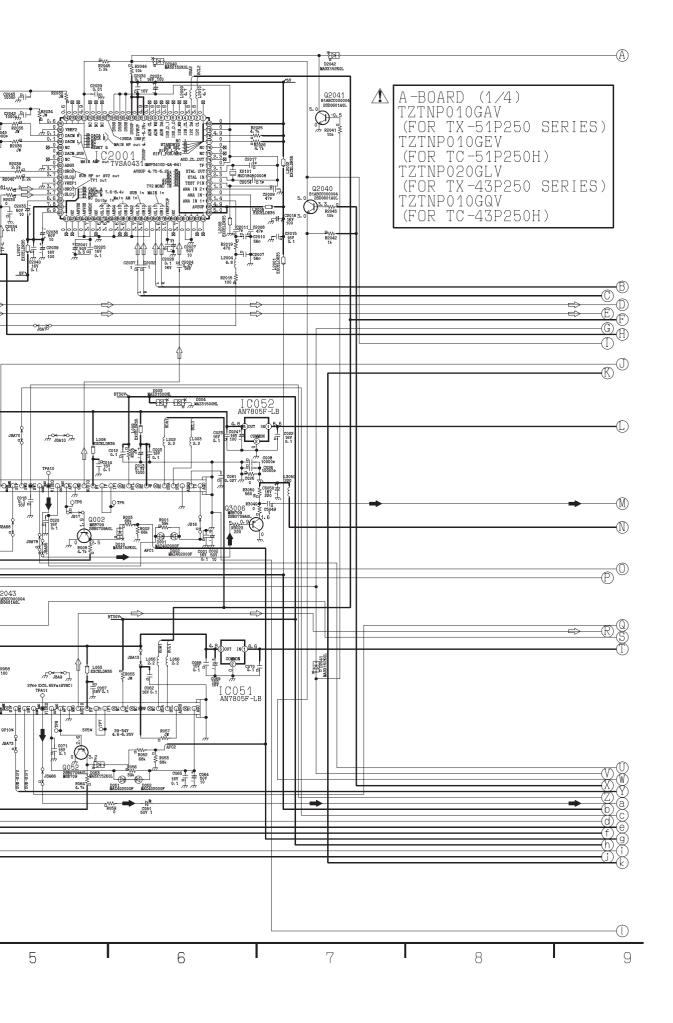
MA150- MA162 (Replacement part)

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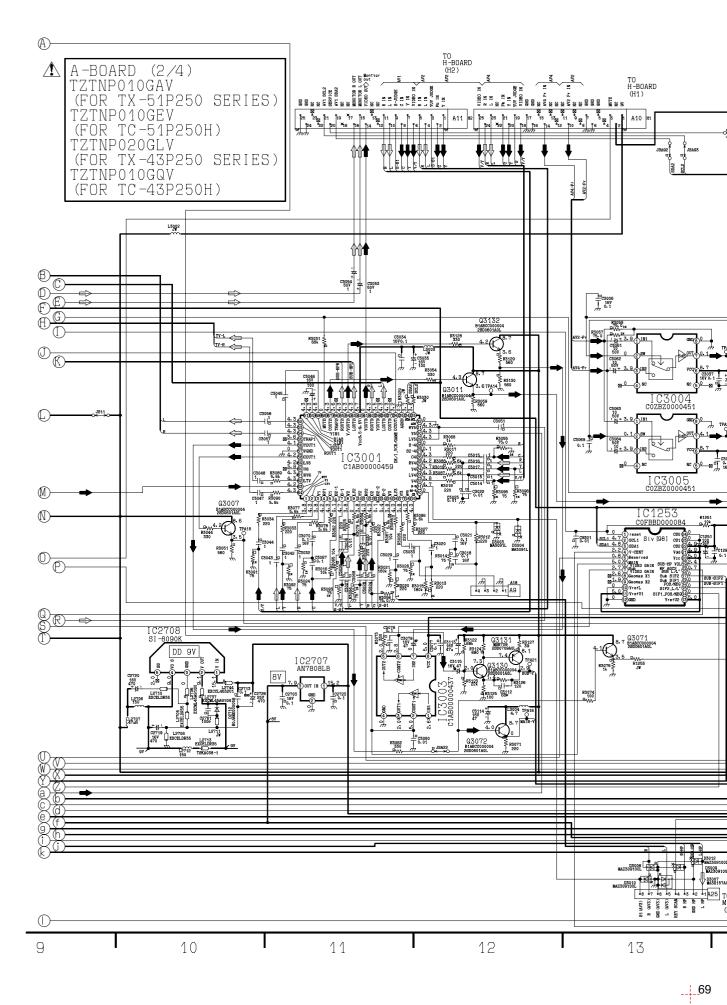
# 14.2. A-Board (1 of 4) Schematic Diagram

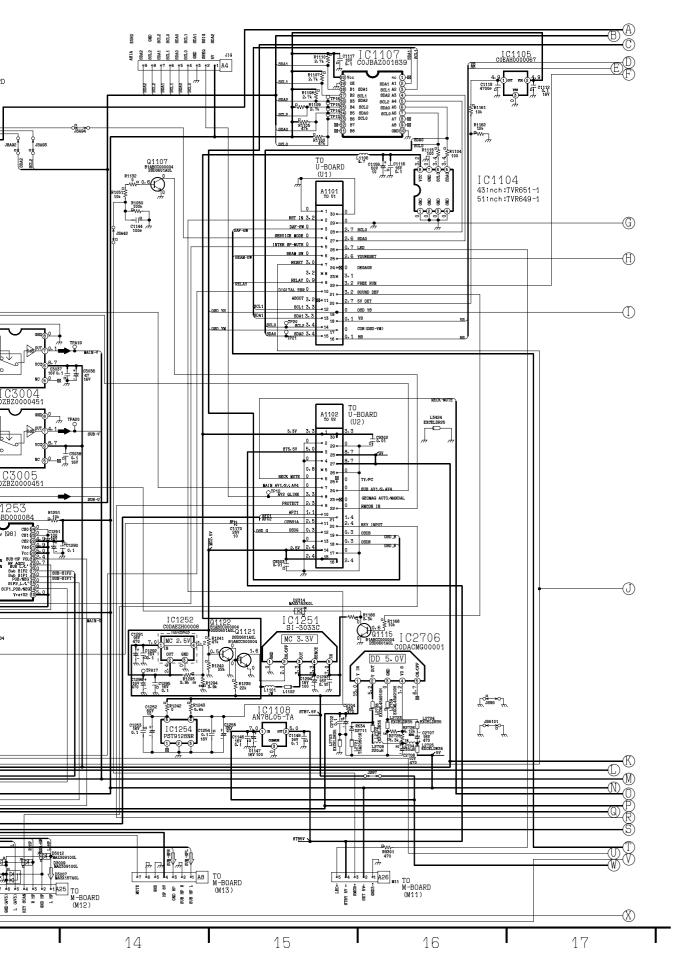






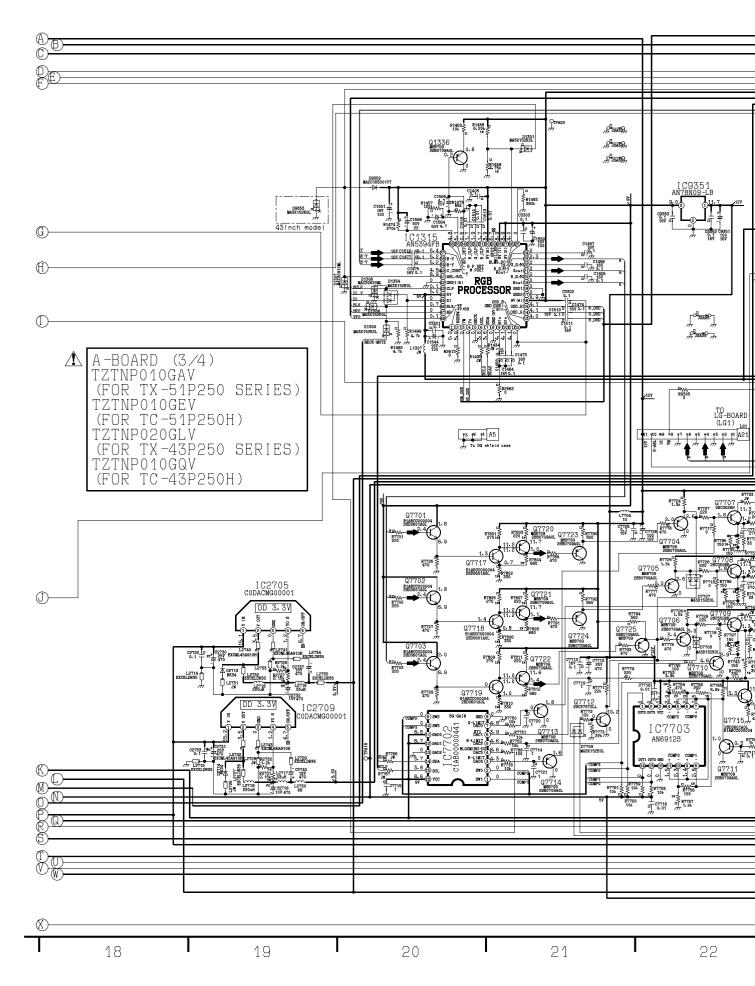
### 14.3. A-Board (2 of 4) Schematic Diagram



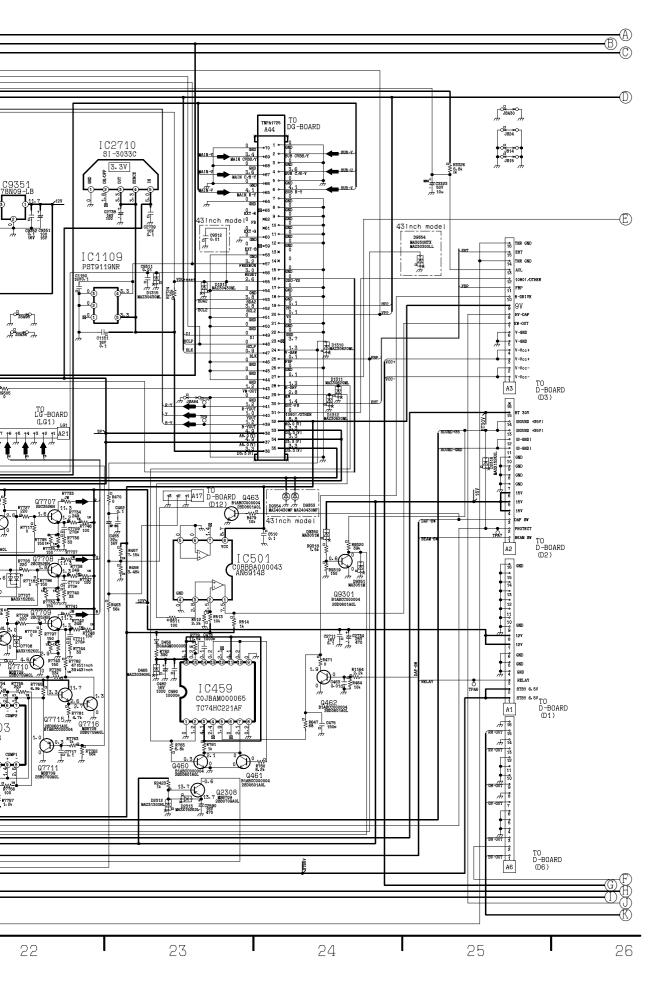


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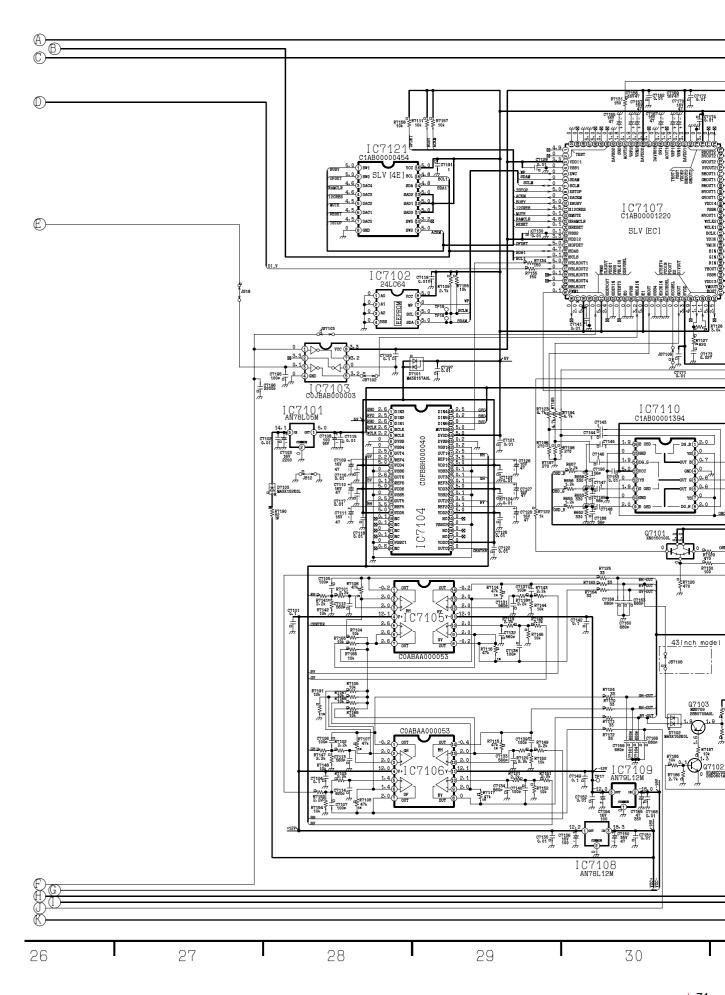
### 14.4. A-Board (3 of 4) Schematic Diagram



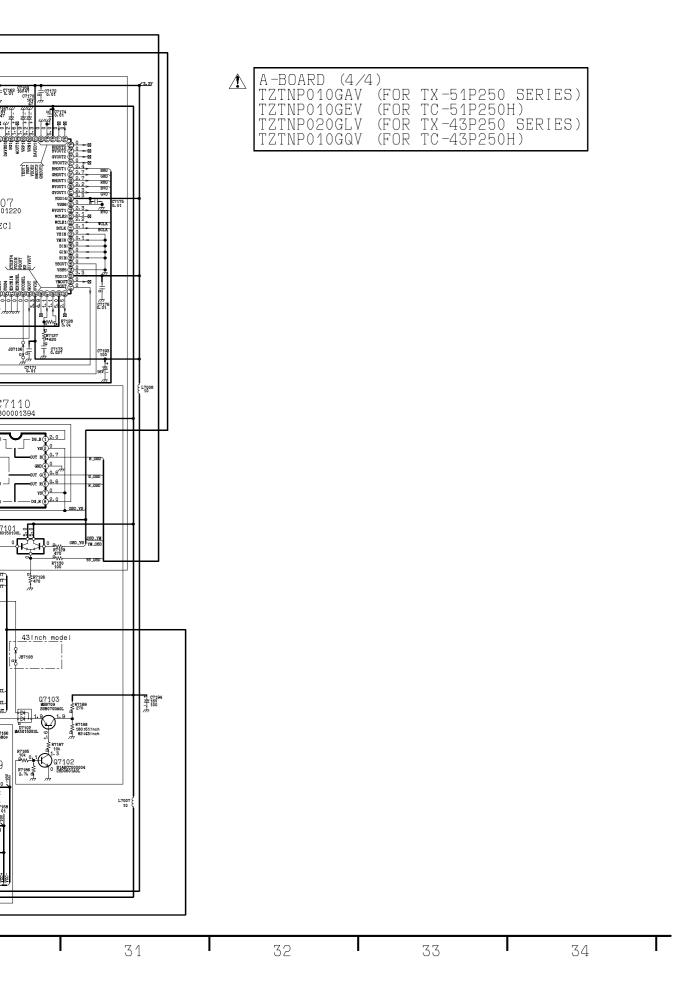




# 14.5. A-Board (4 of 4) Schematic Diagram

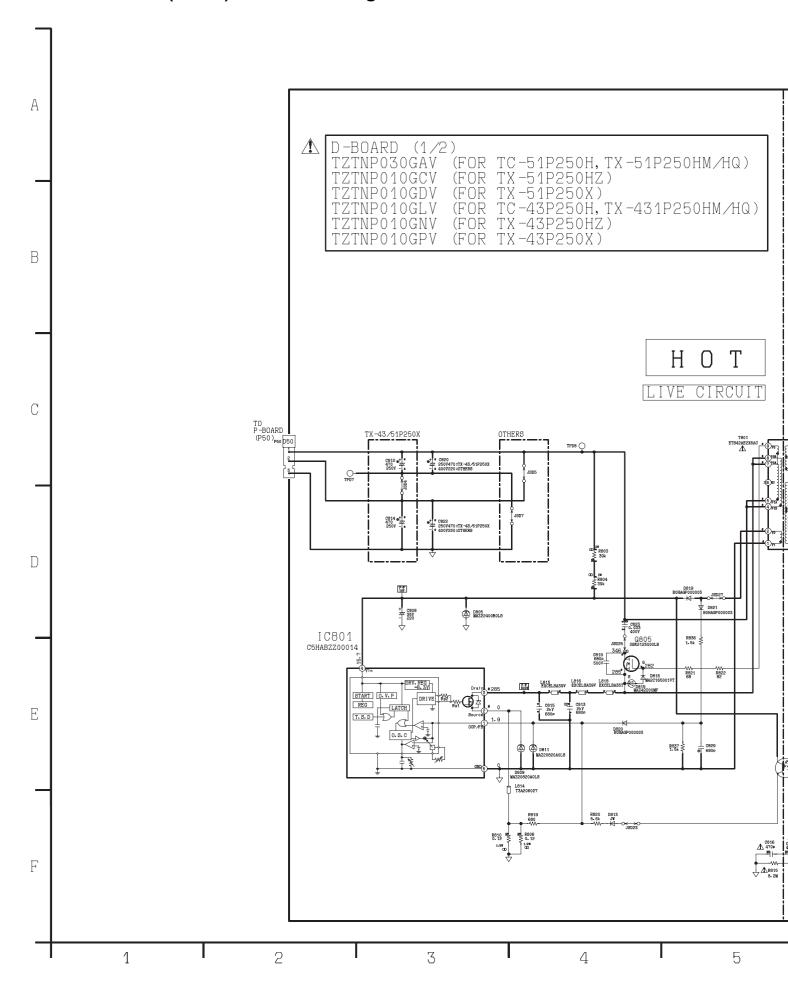




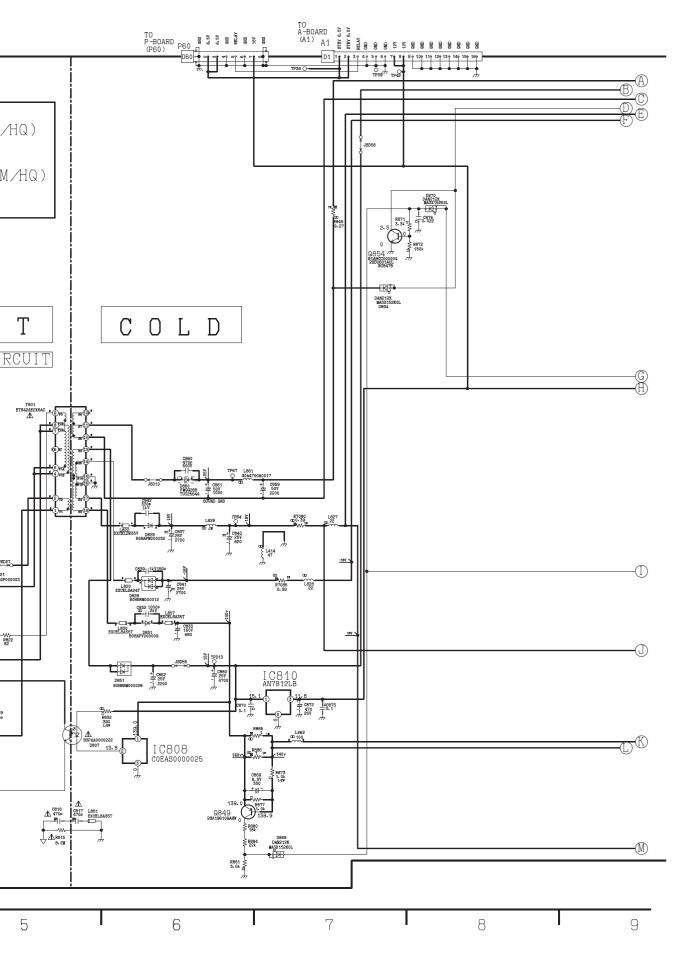


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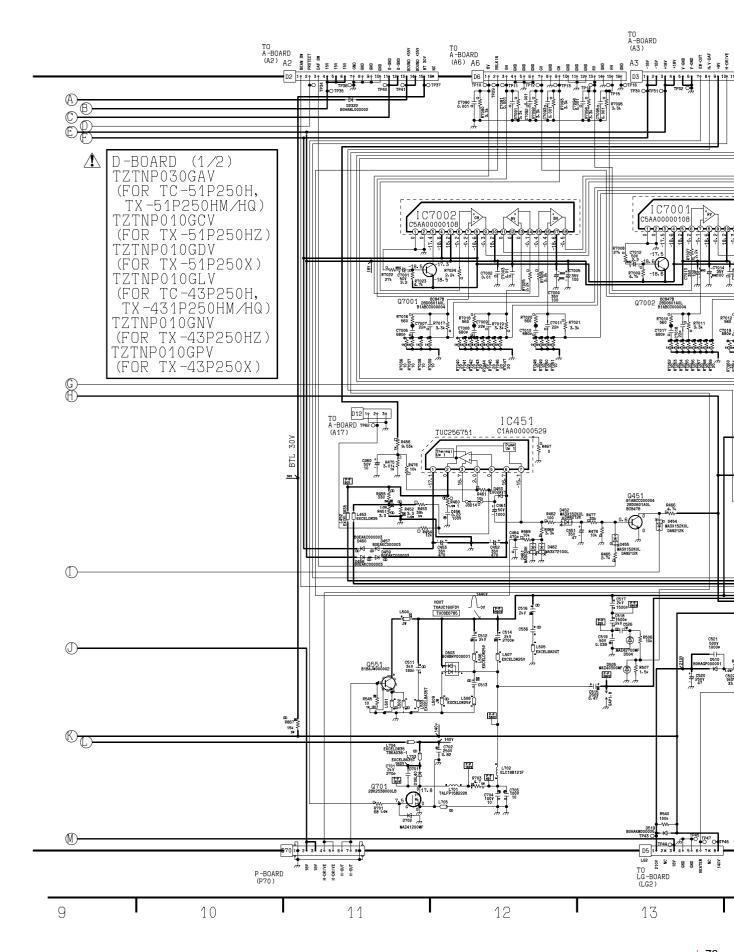
# 14.6. D-Board (1 of 2) Schematic Diagram

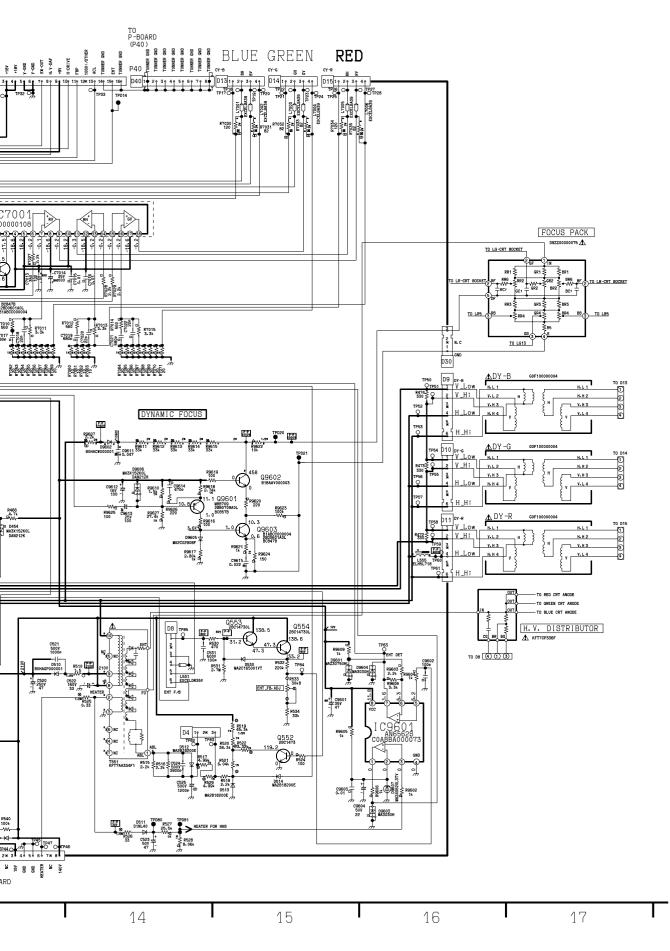




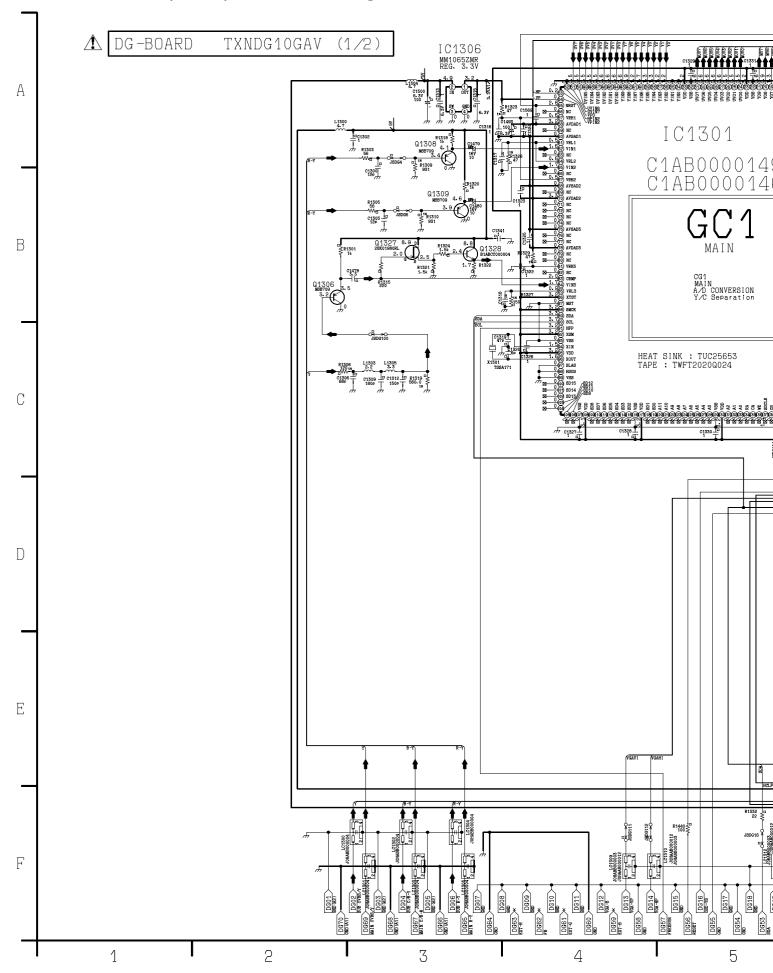


### 14.7. D-Board (2 of 2) Schematic Diagram

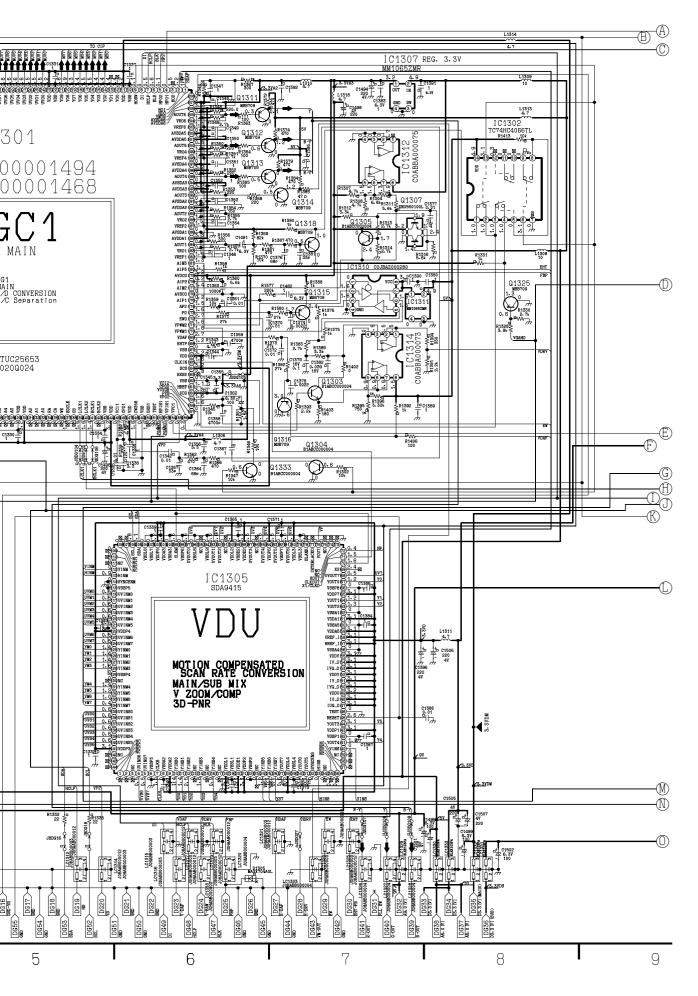




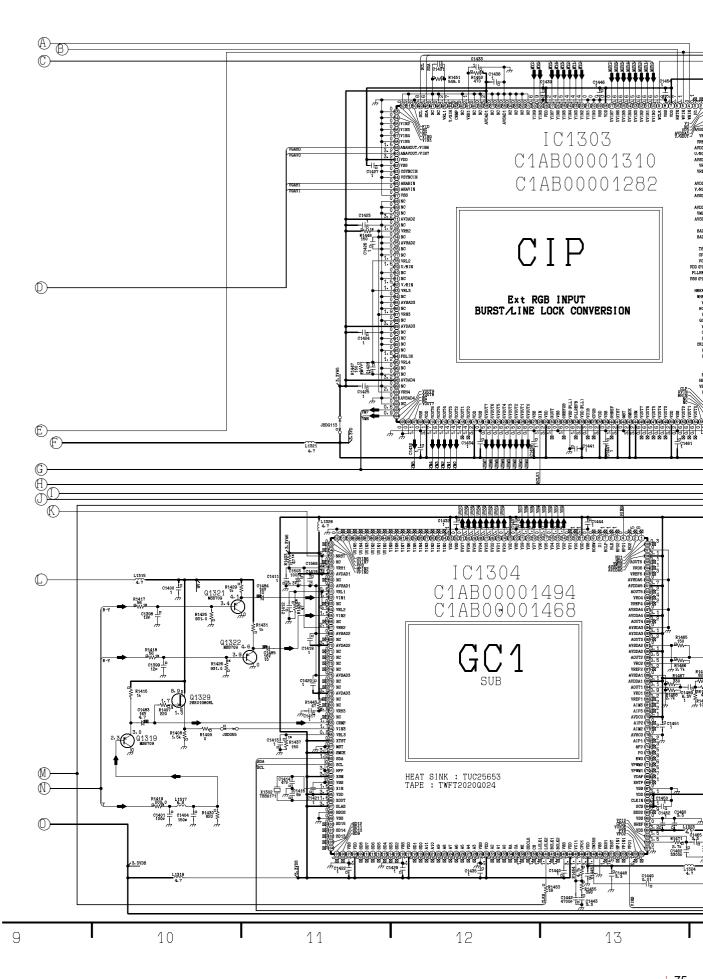
# 14.8. DG-Board (1 of 2) Schematic Diagram



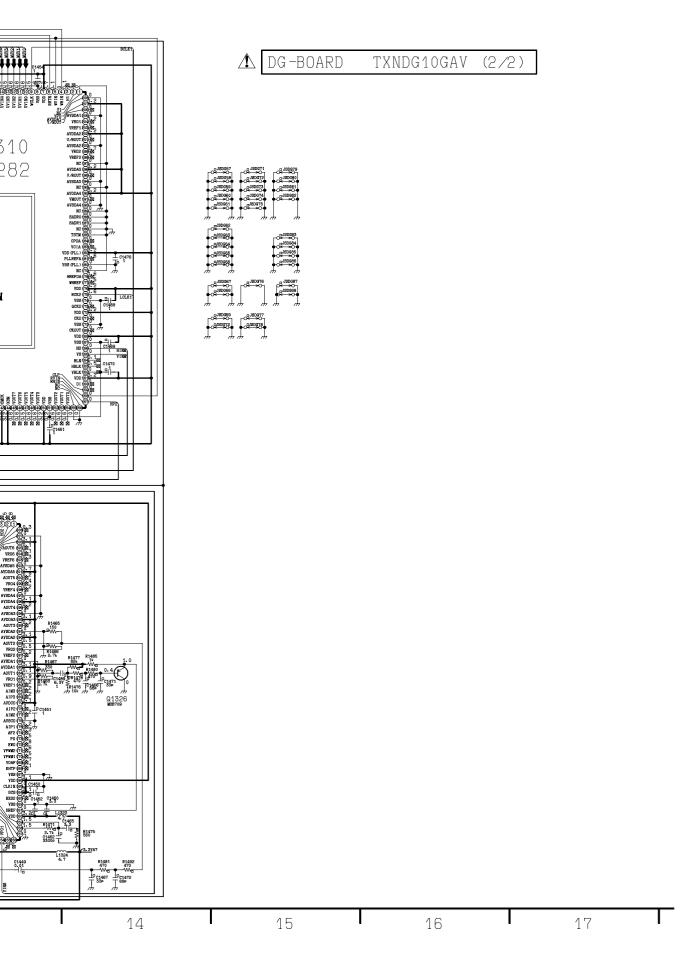




# 14.9. DG-Board (2 of 2) Schematic Diagram

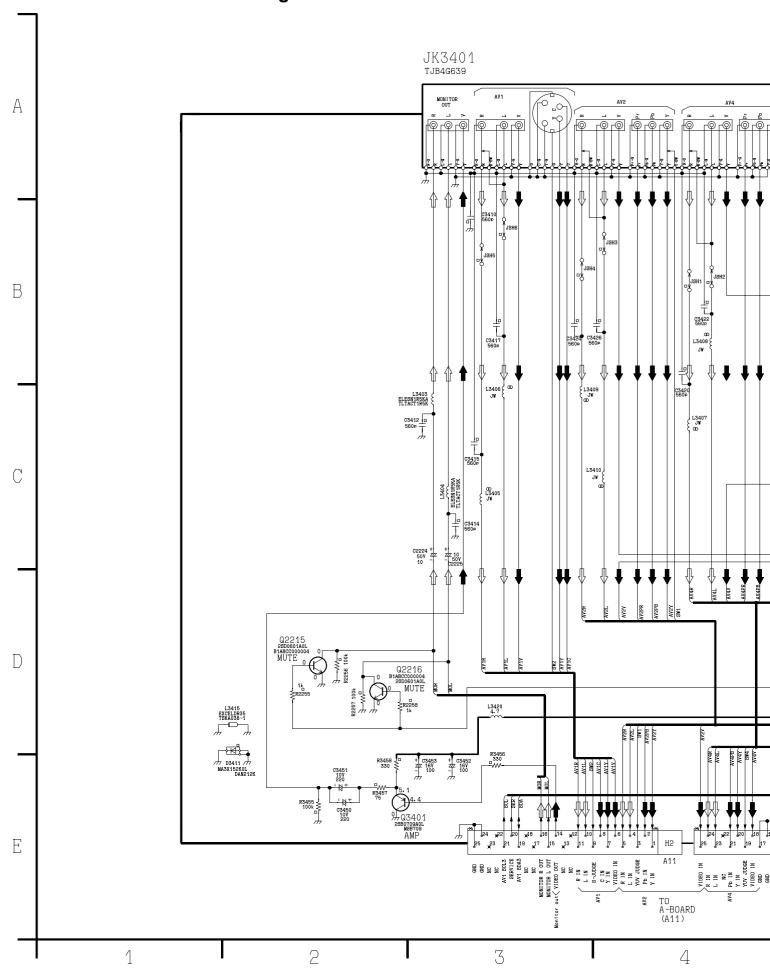




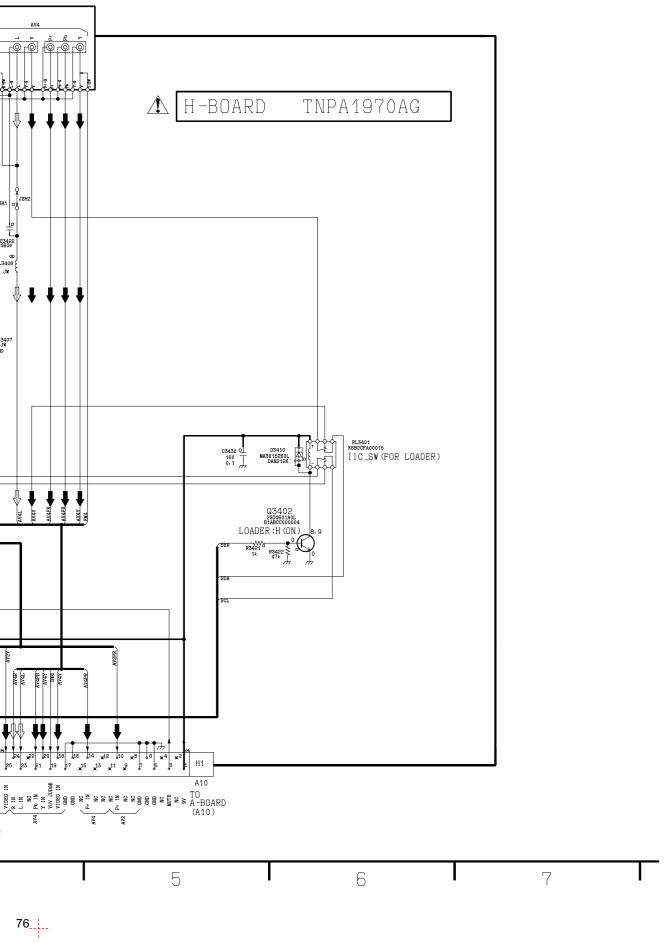


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# 14.10. H-Board Schematic Diagram

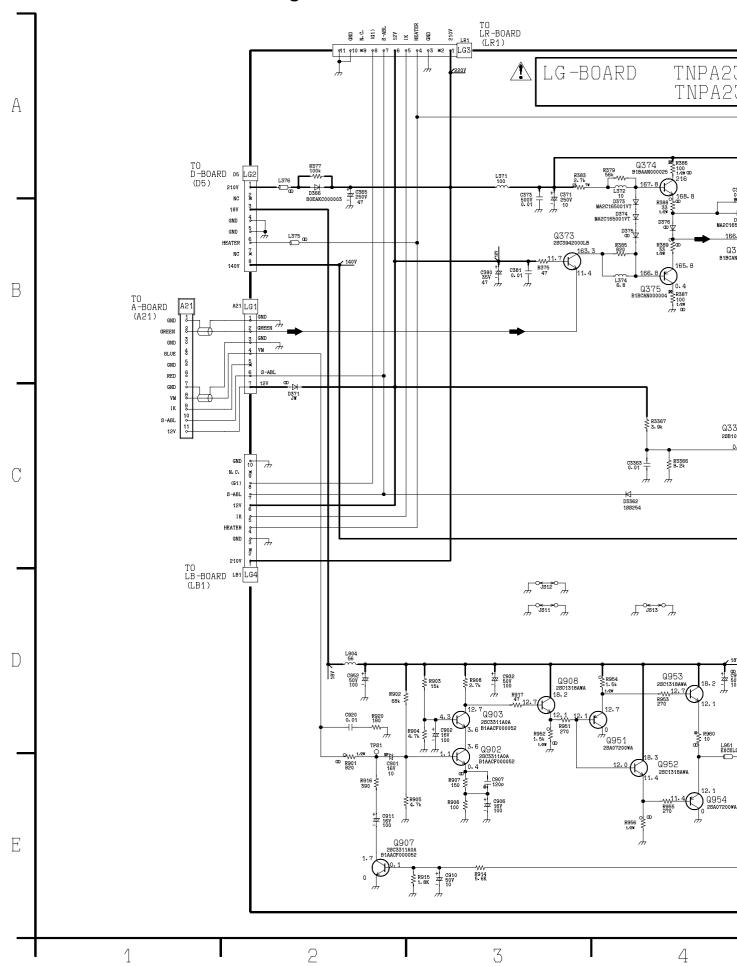




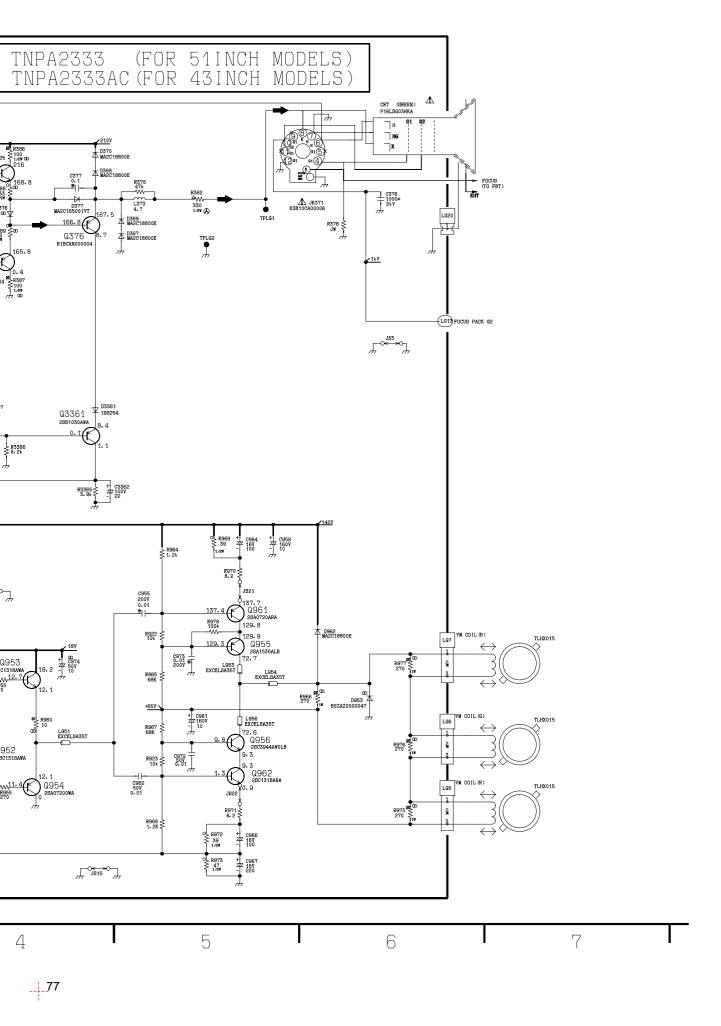


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# 14.11. LG-Board Schematic Diagram

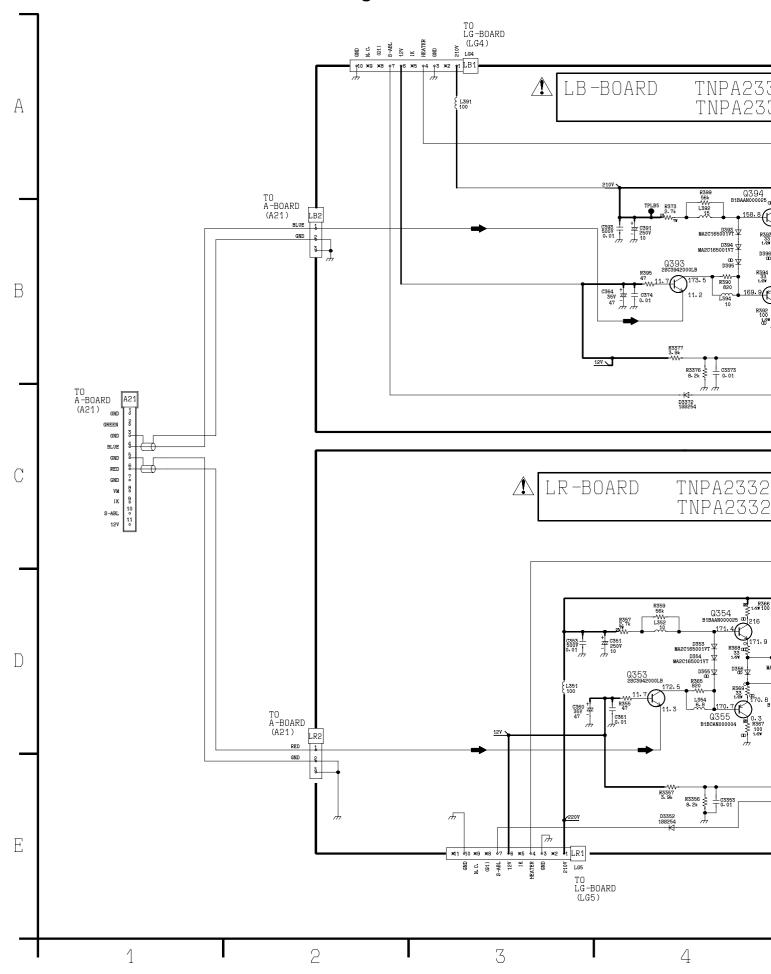




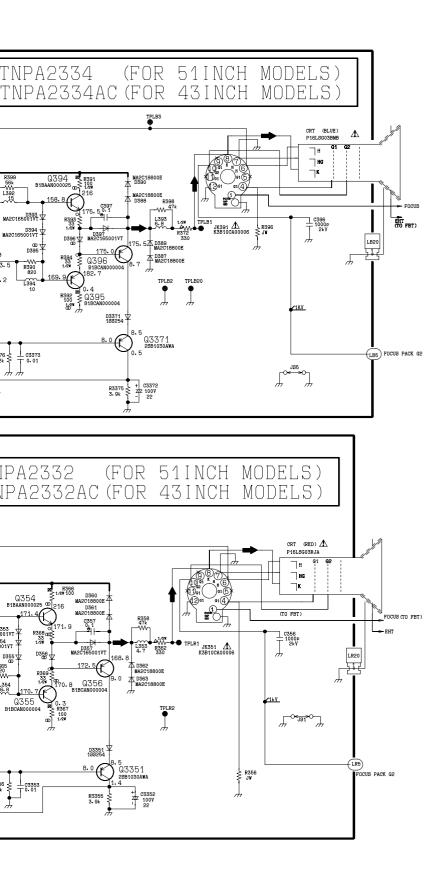


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# 14.12. LB and LR-Board Schematic Diagram

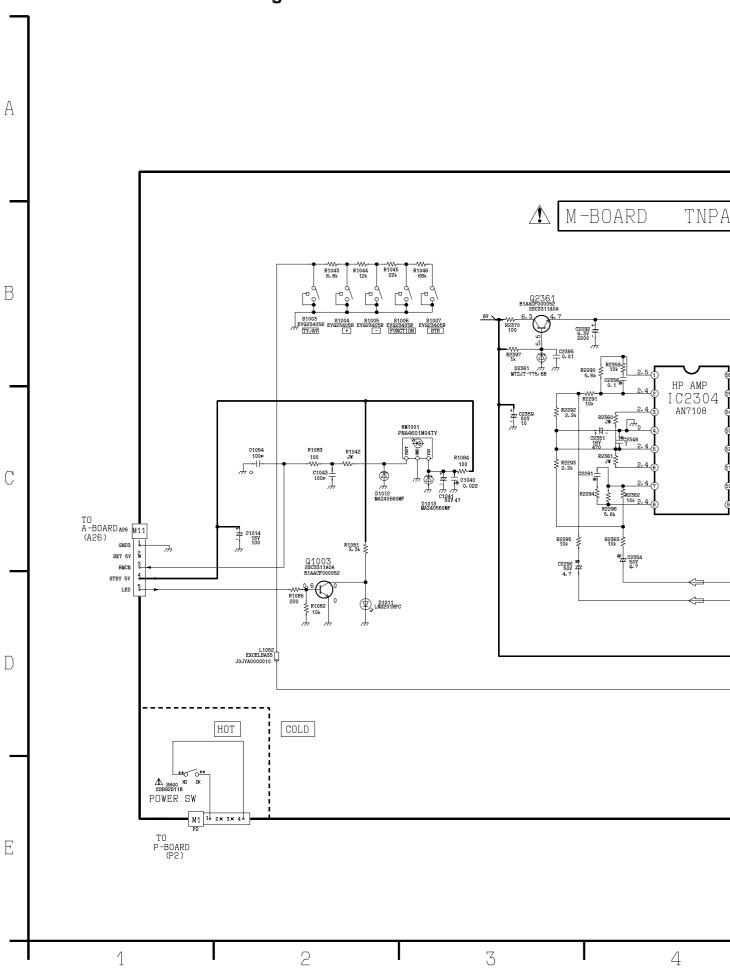




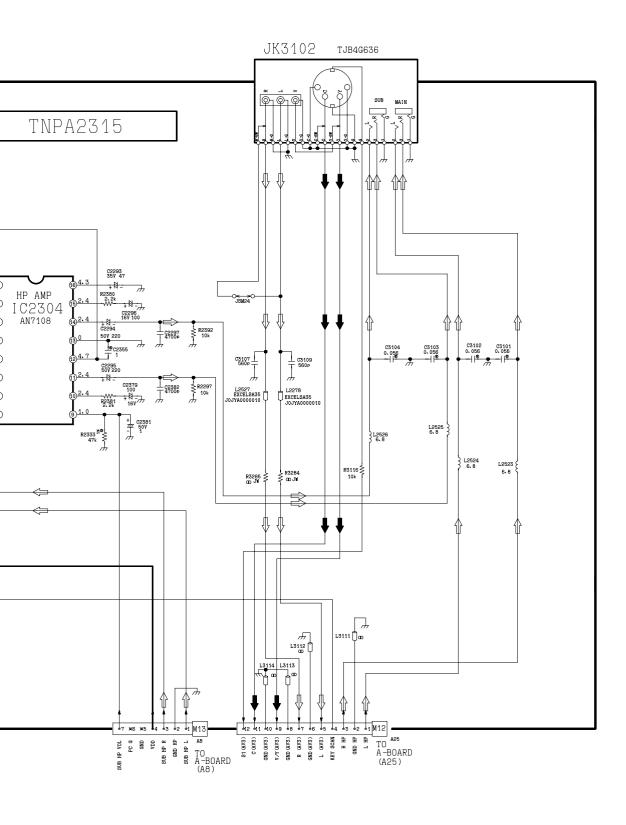




## 14.13. M-Board Schematic Diagram



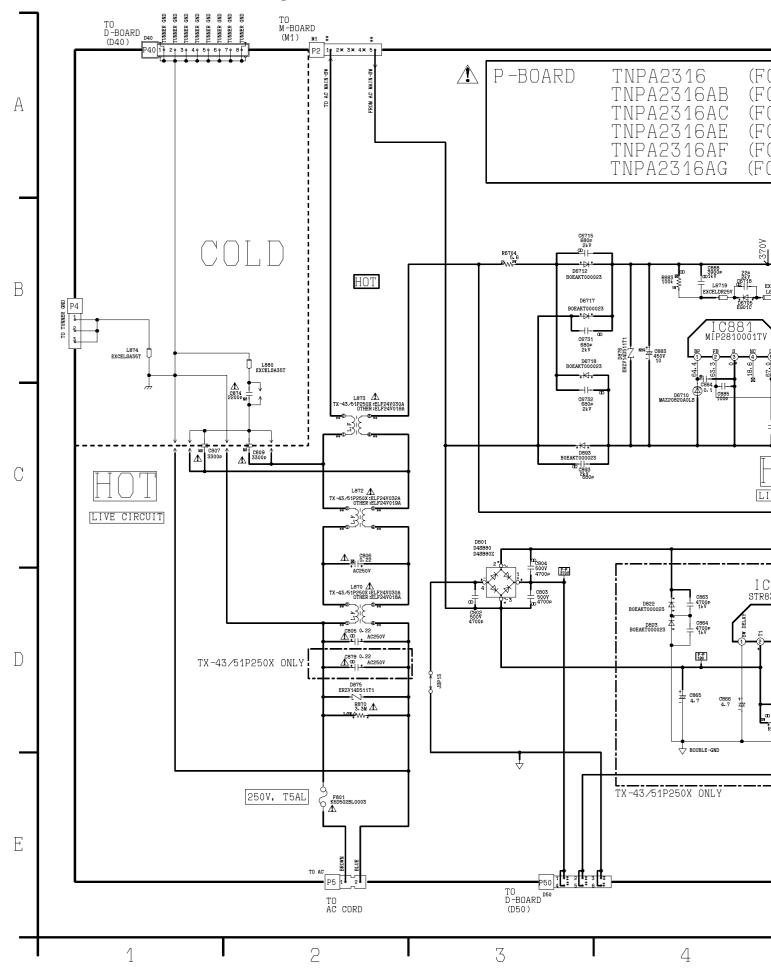




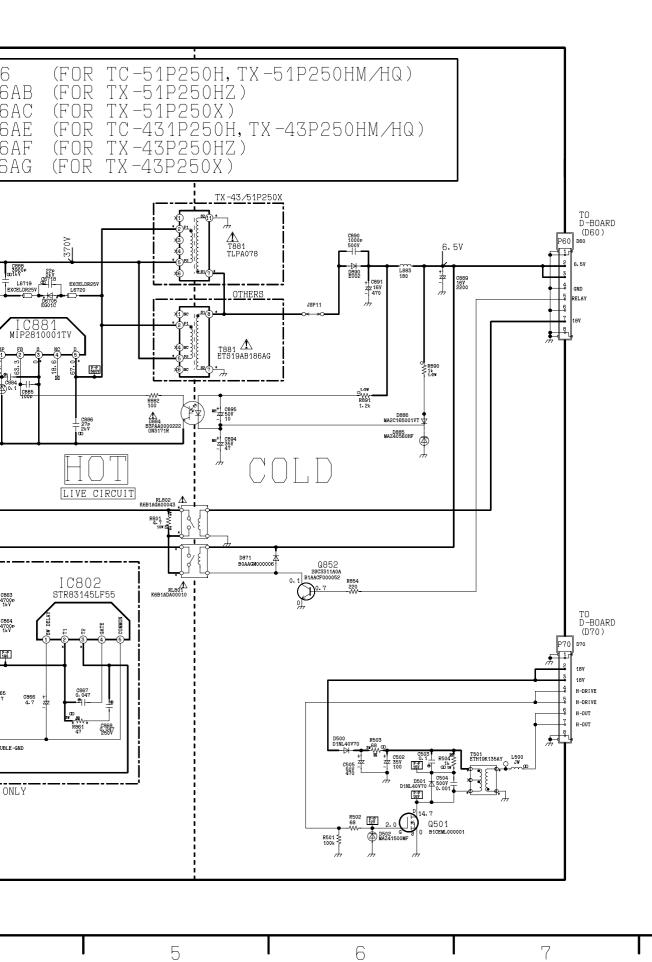


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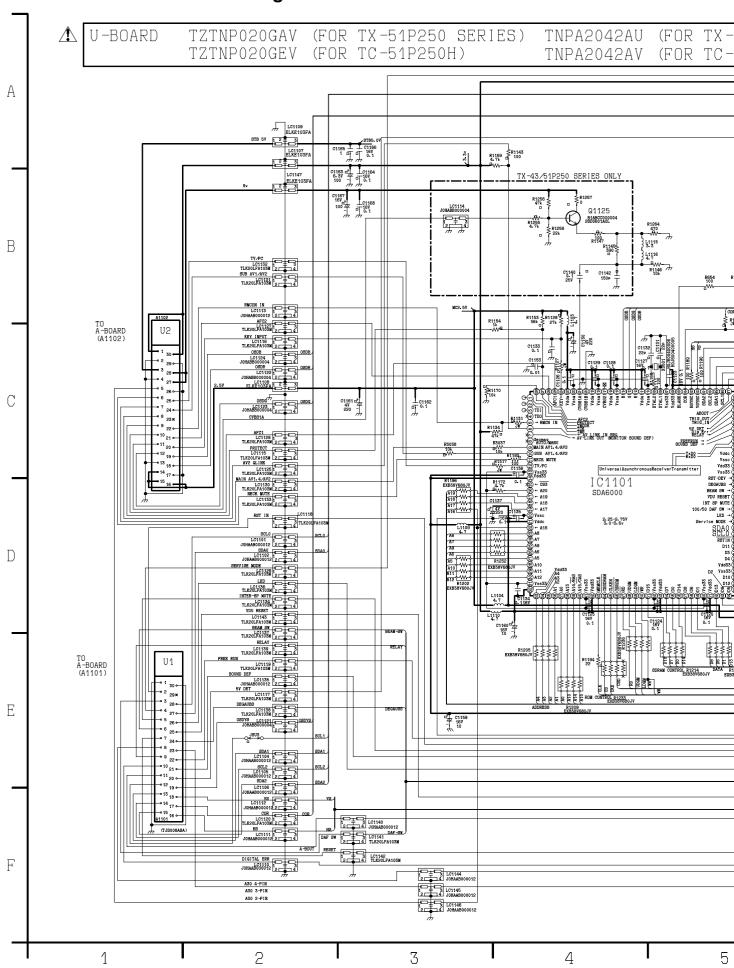
### 14.14. P-Board Schematic Diagram





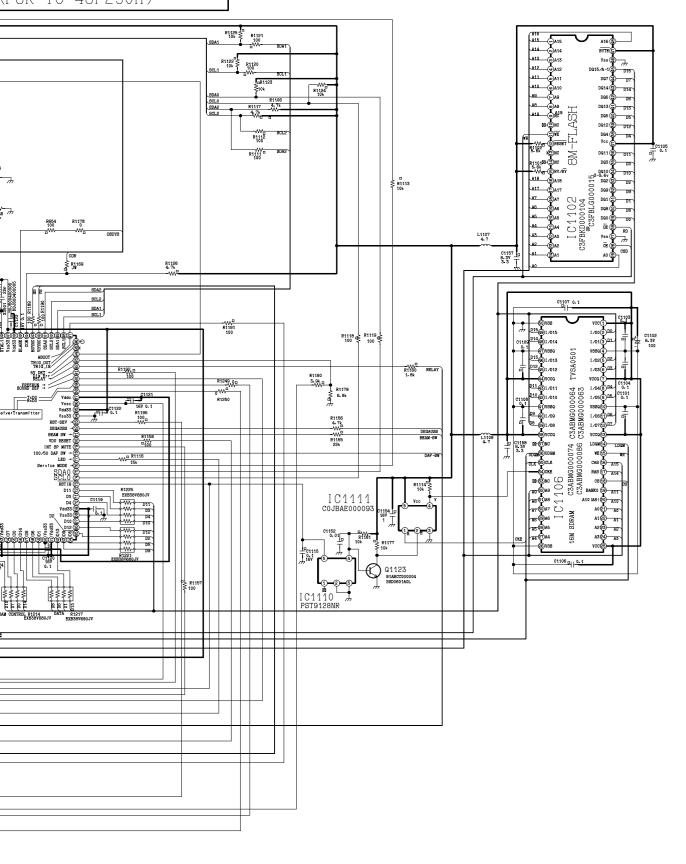


#### 14.15. U-Board Schematic Diagram



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(FOR TX-43P250 SERIES) (FOR TC-43P250H)



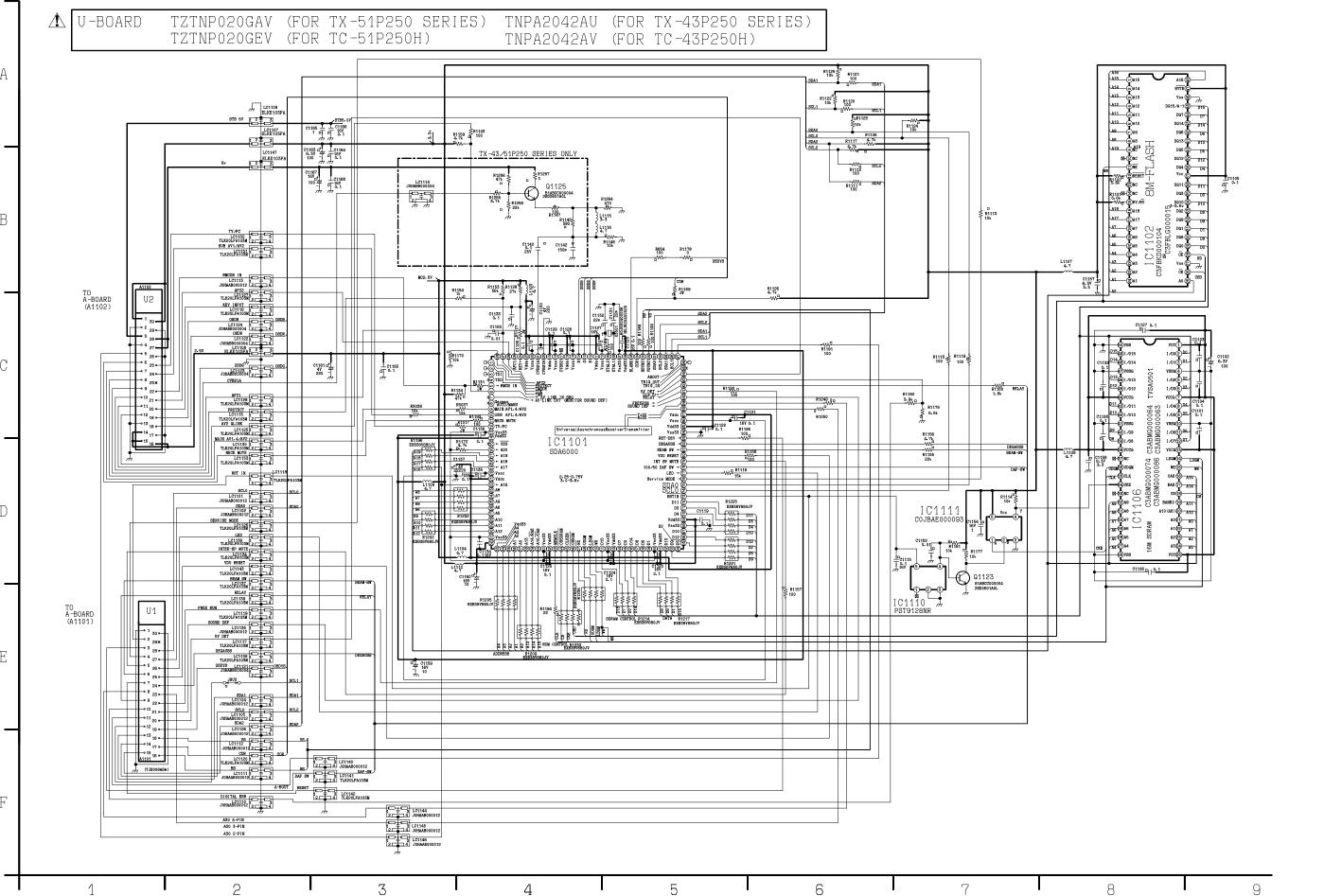
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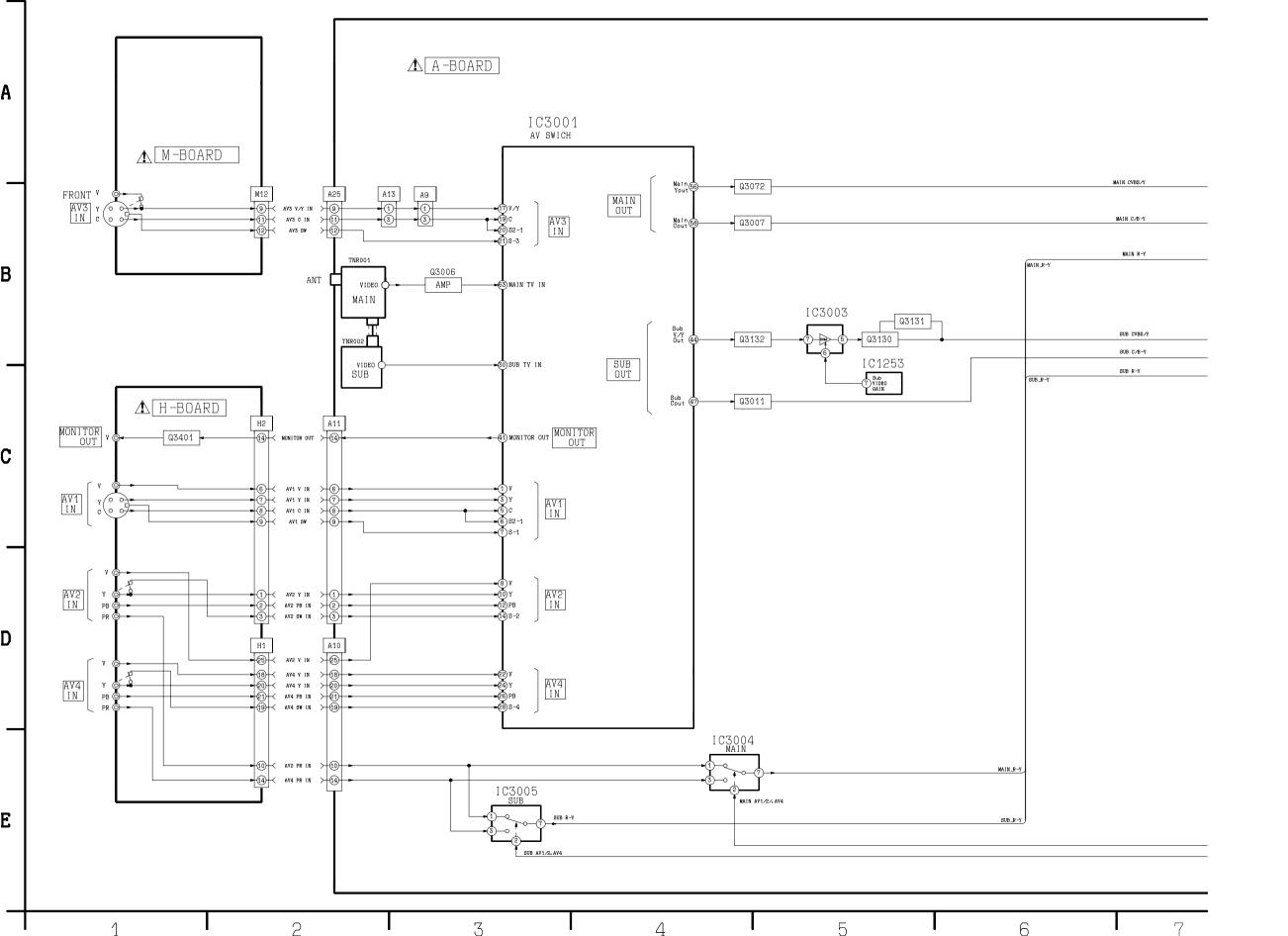
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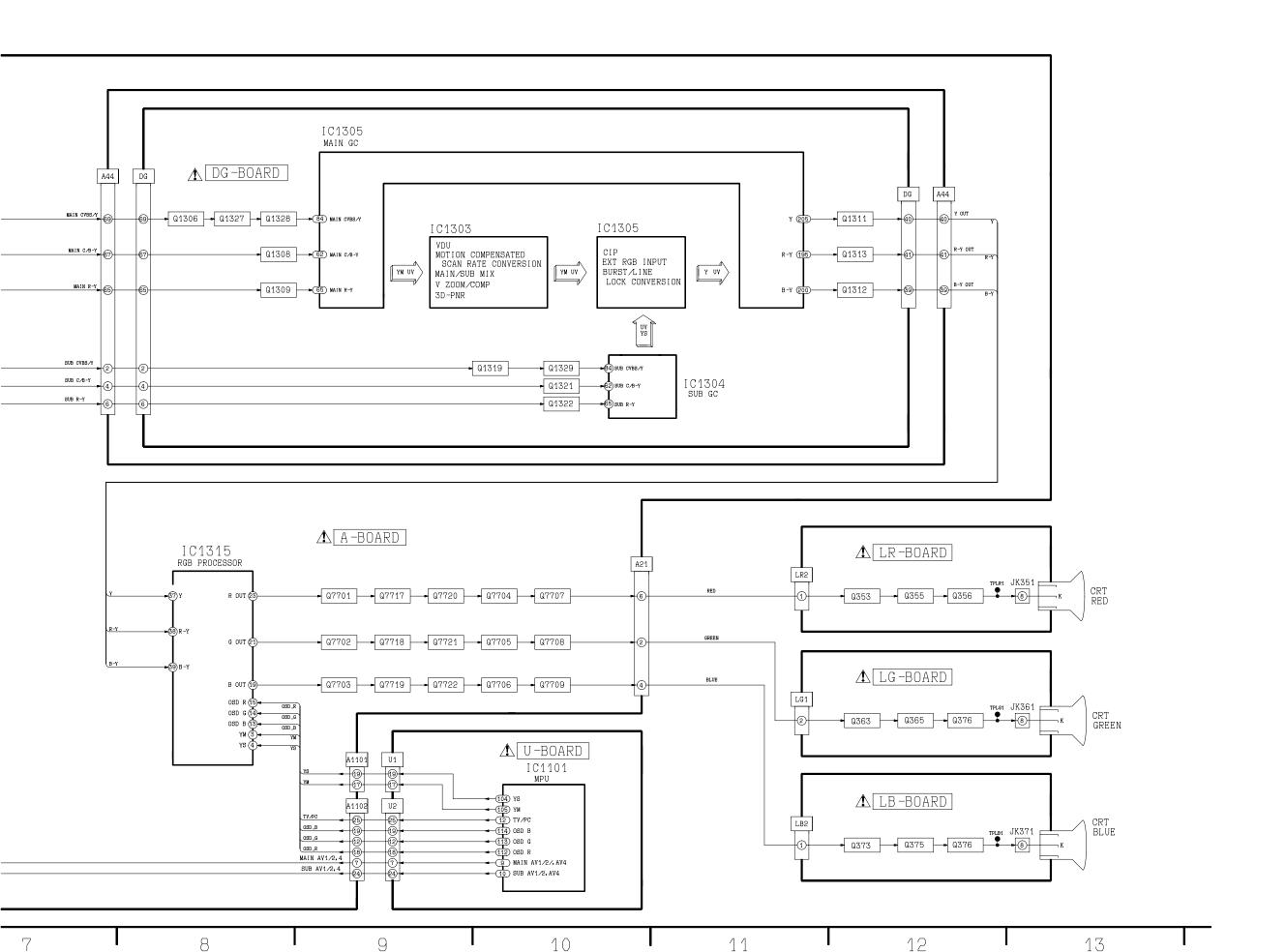
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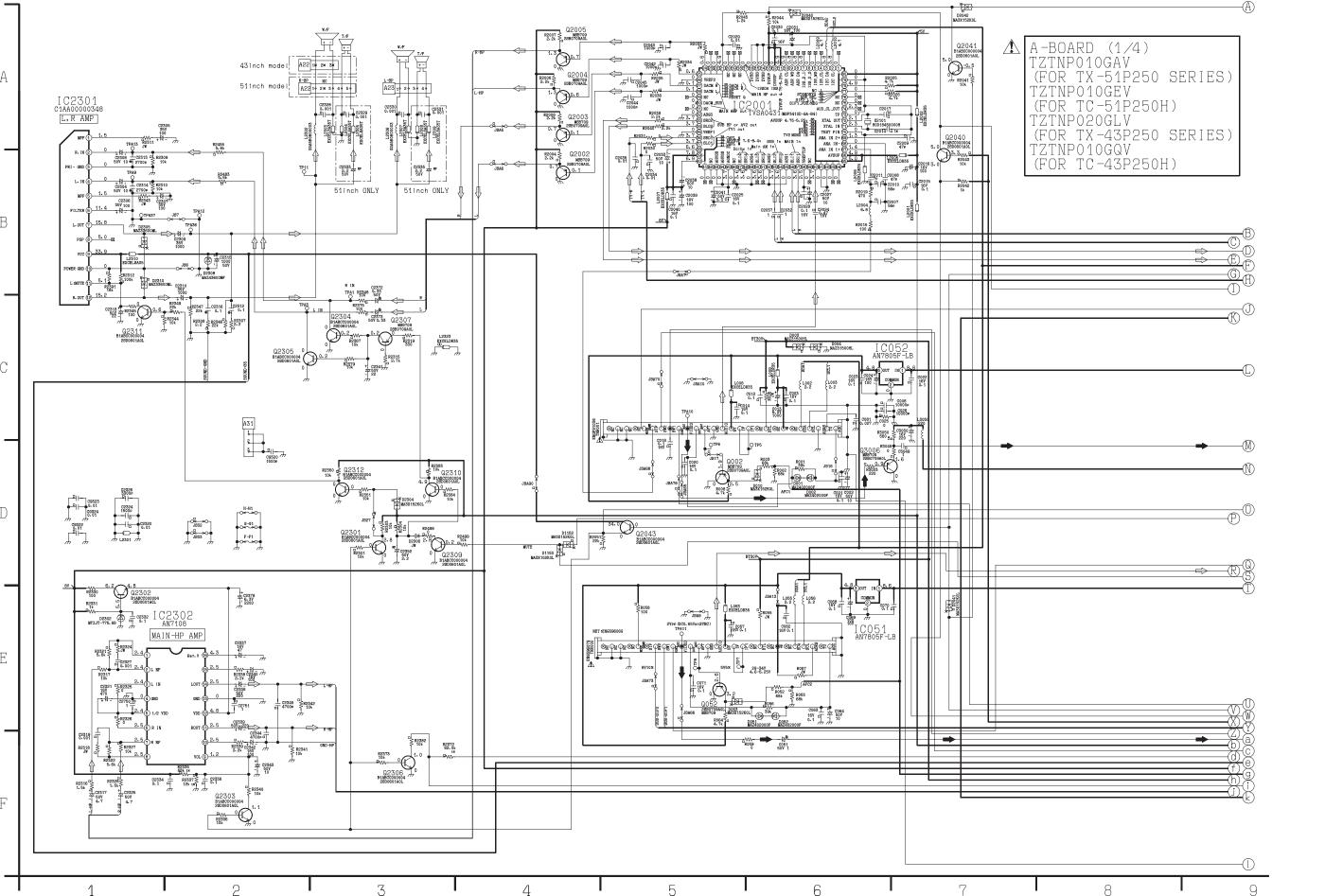
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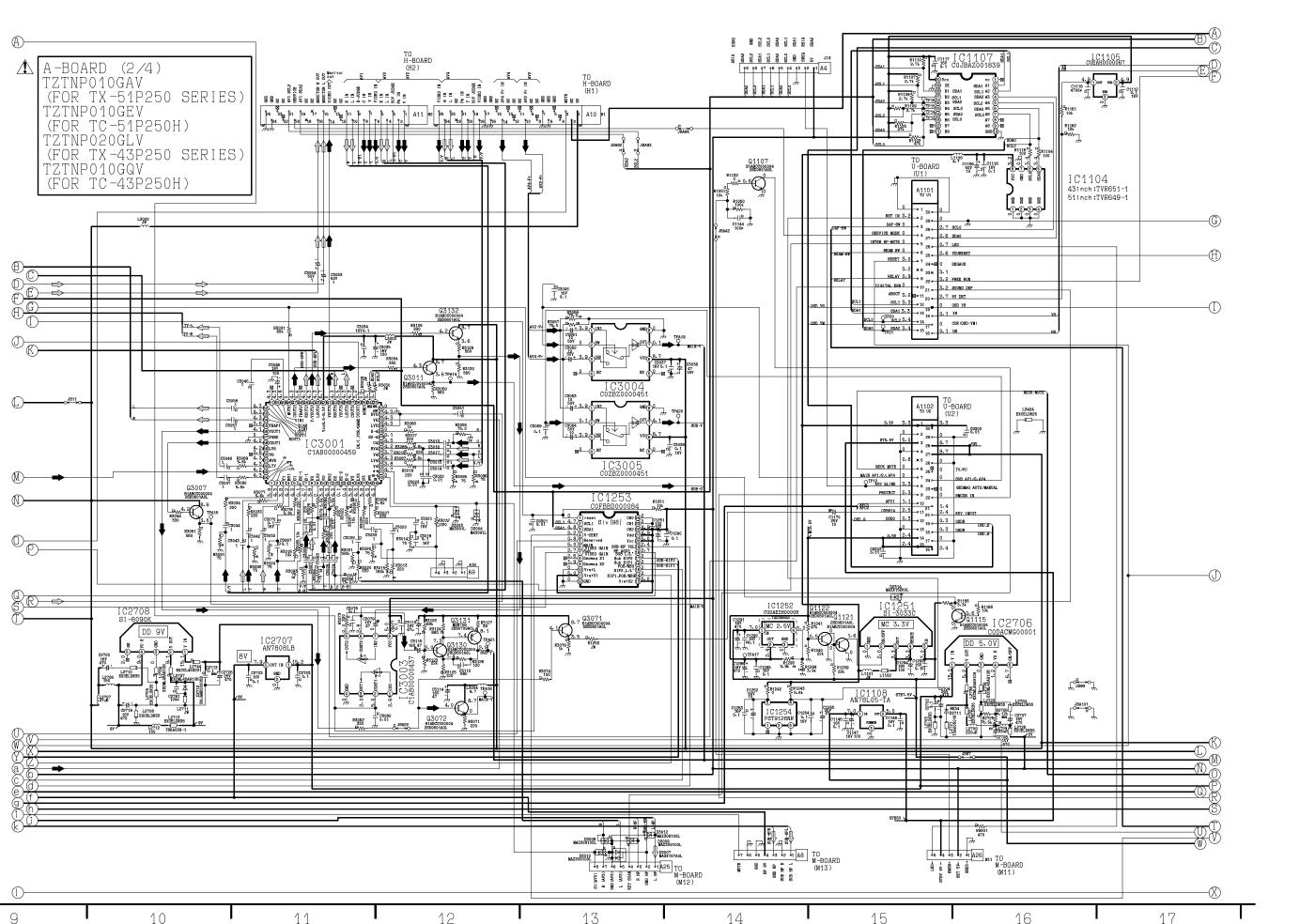
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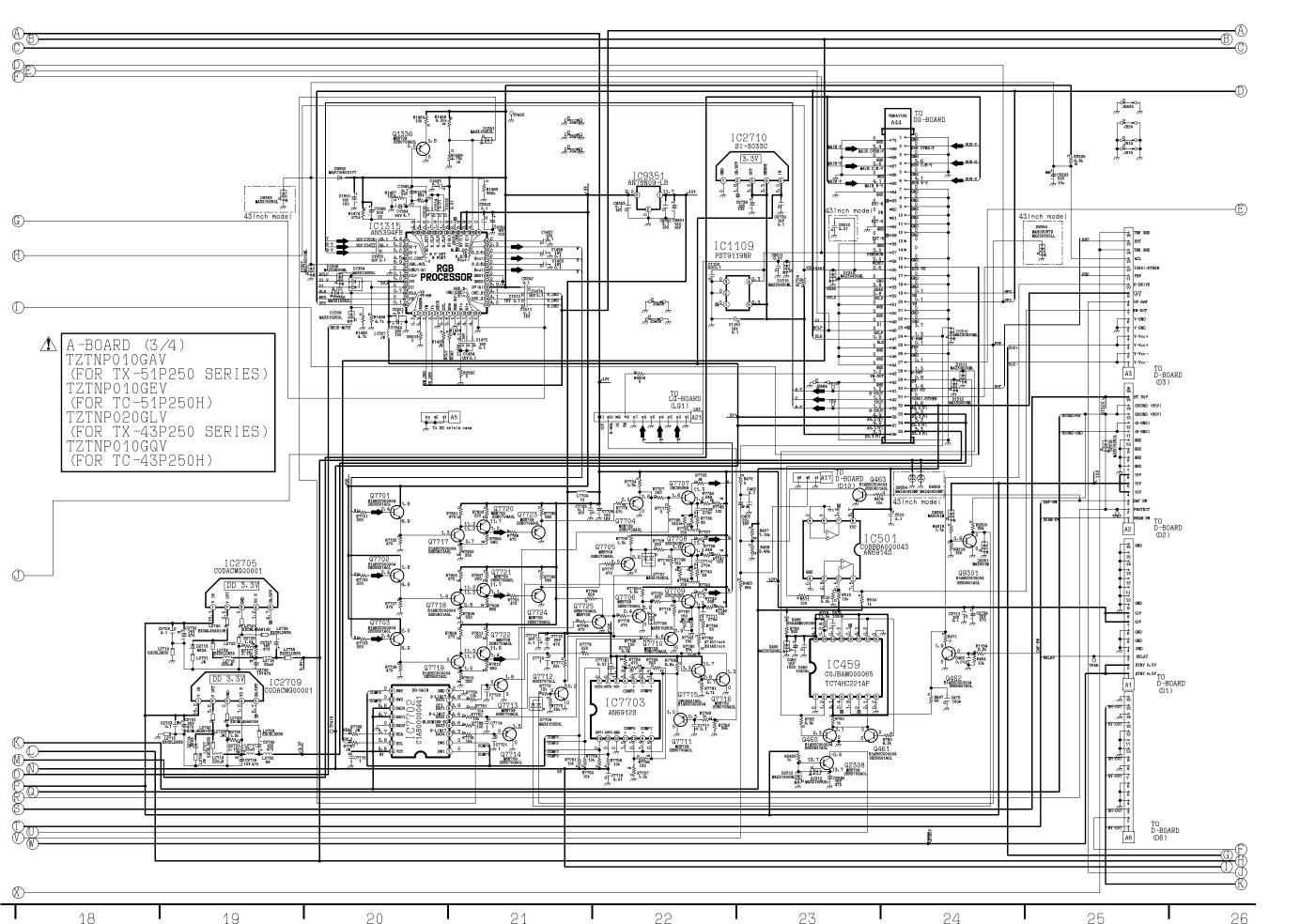


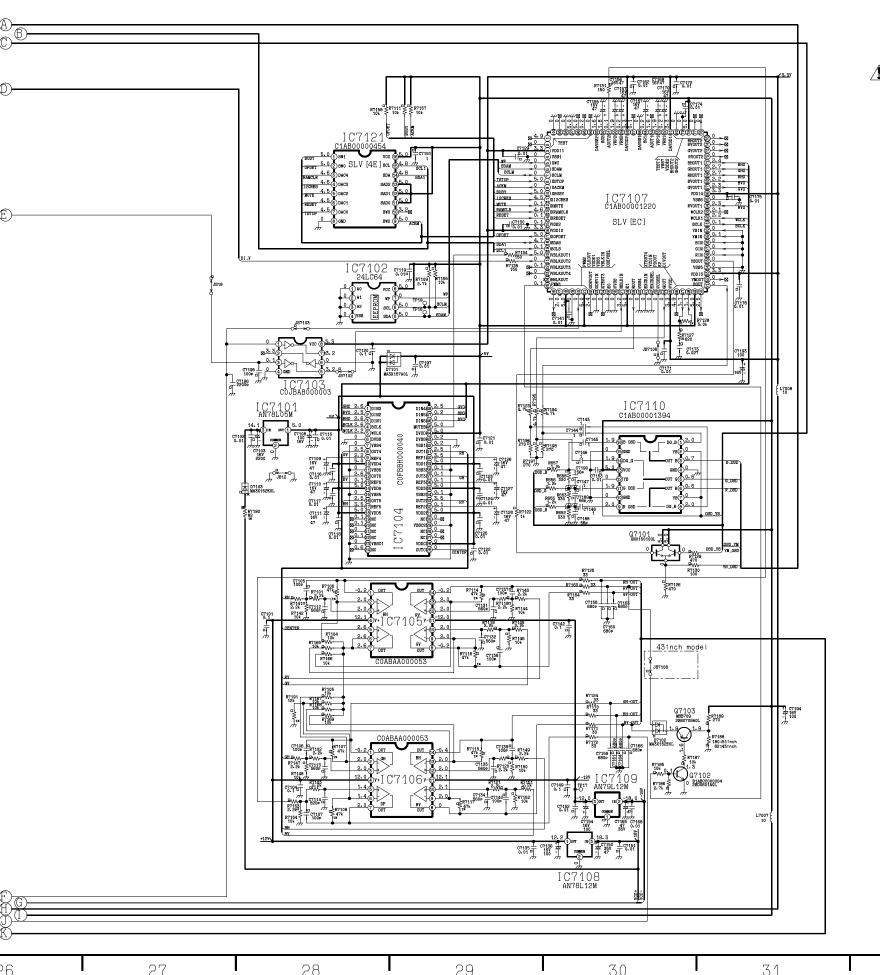






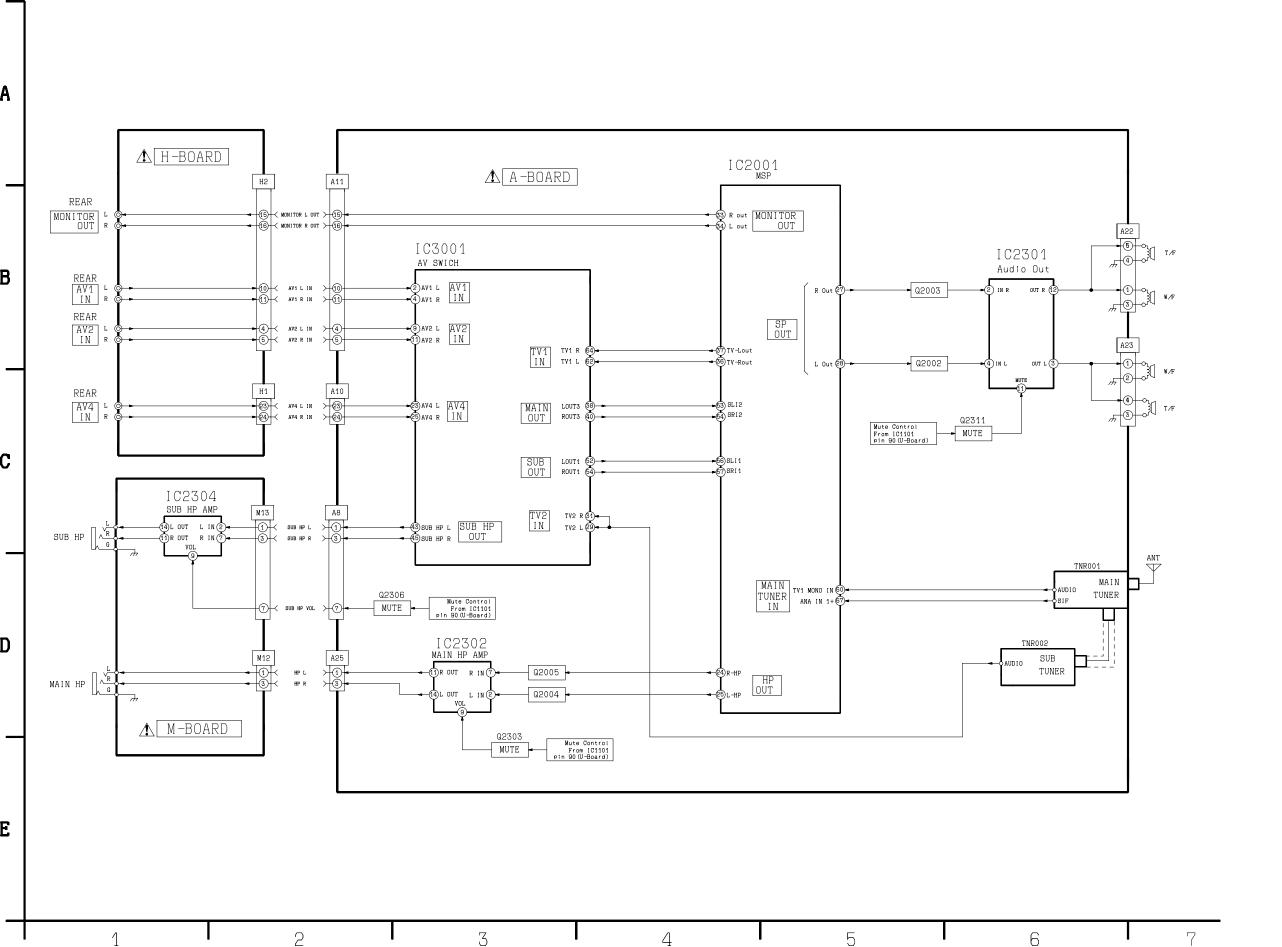


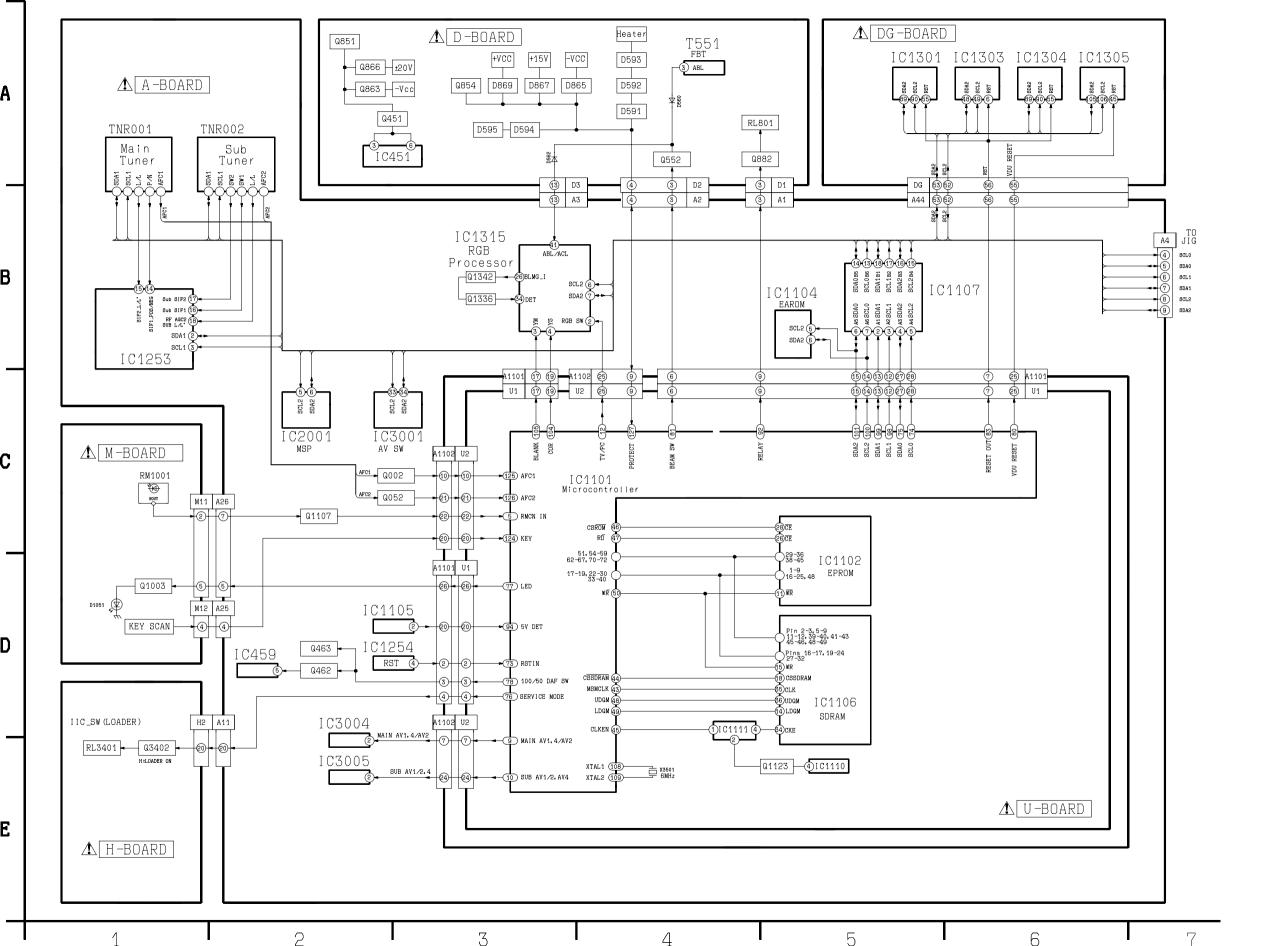


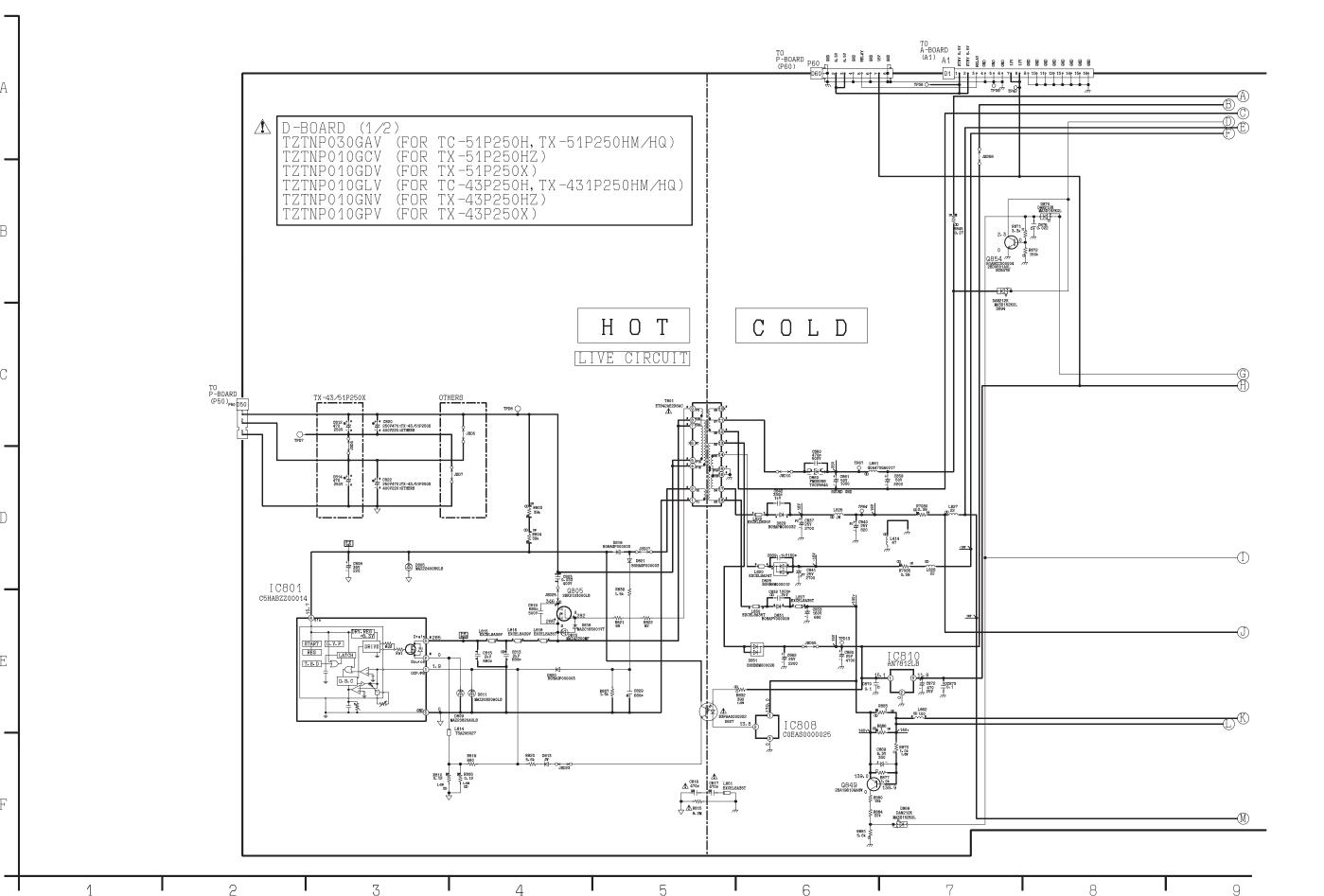


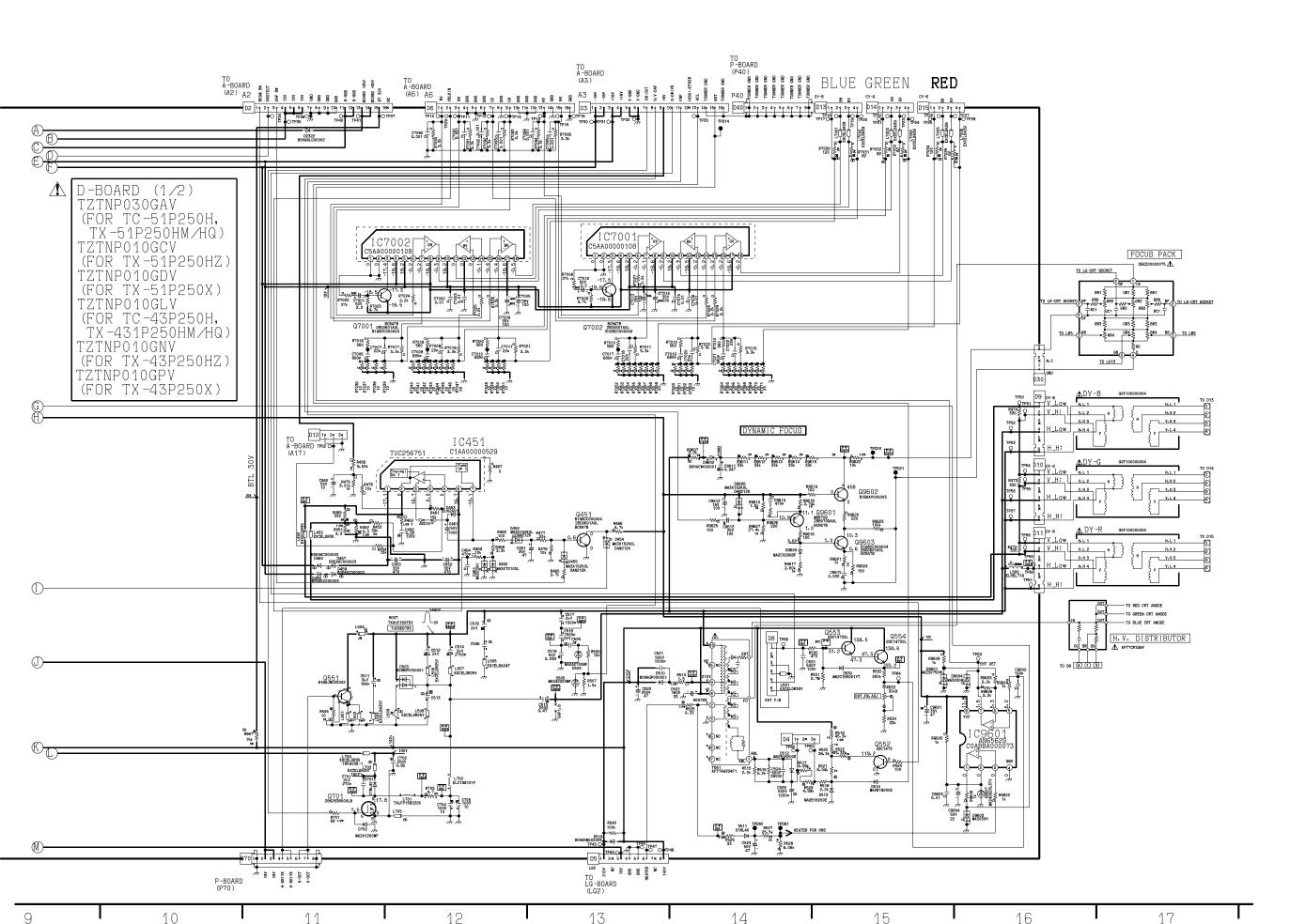
A-BOARD (4/4)
TZTNP010GAV (FOR TX-51P250 SERIES)
TZTNP010GEV (FOR TC-51P250H)
TZTNP020GLV (FOR TX-43P250 SERIES)
TZTNP010GQV (FOR TC-43P250H)

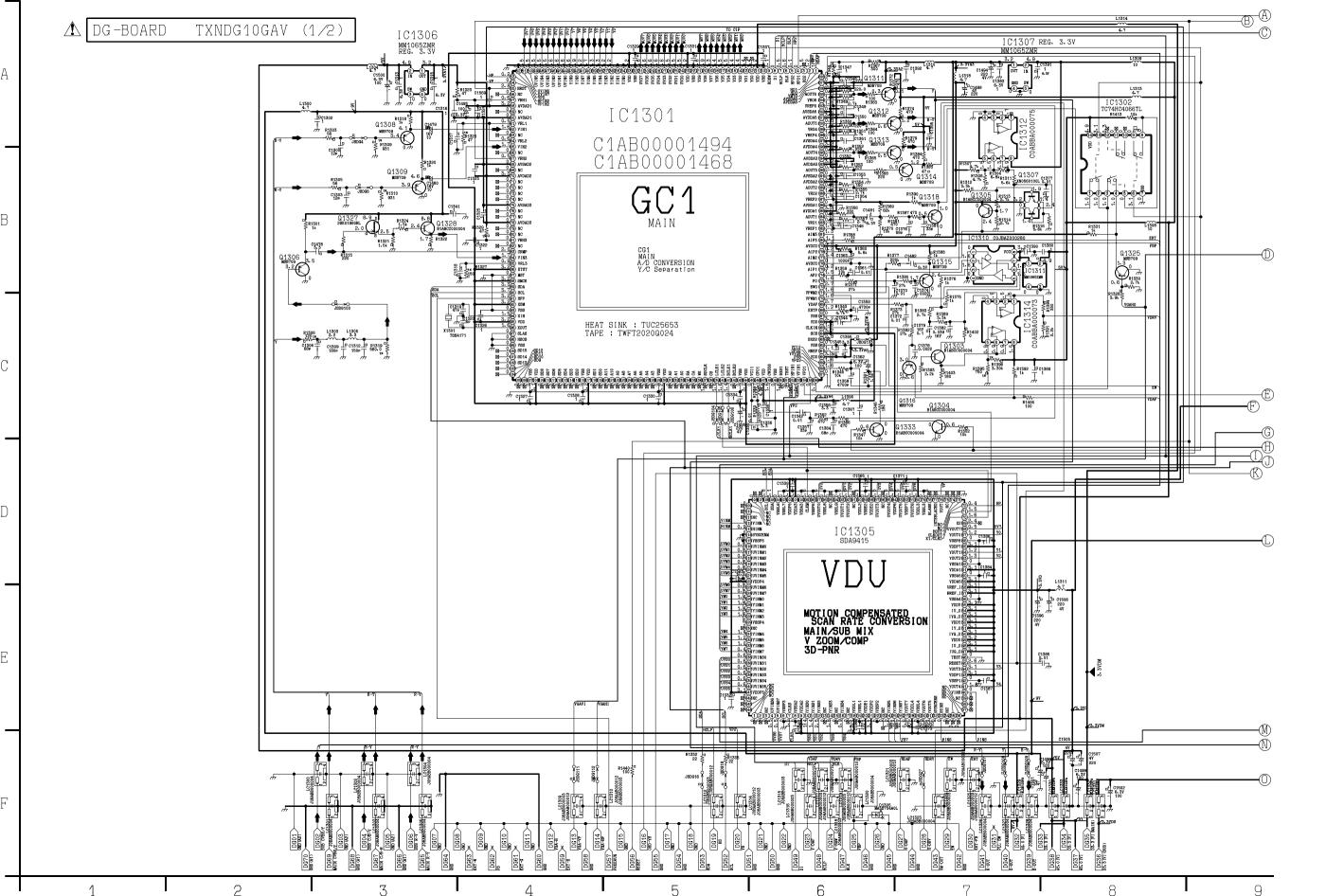
32 33 34

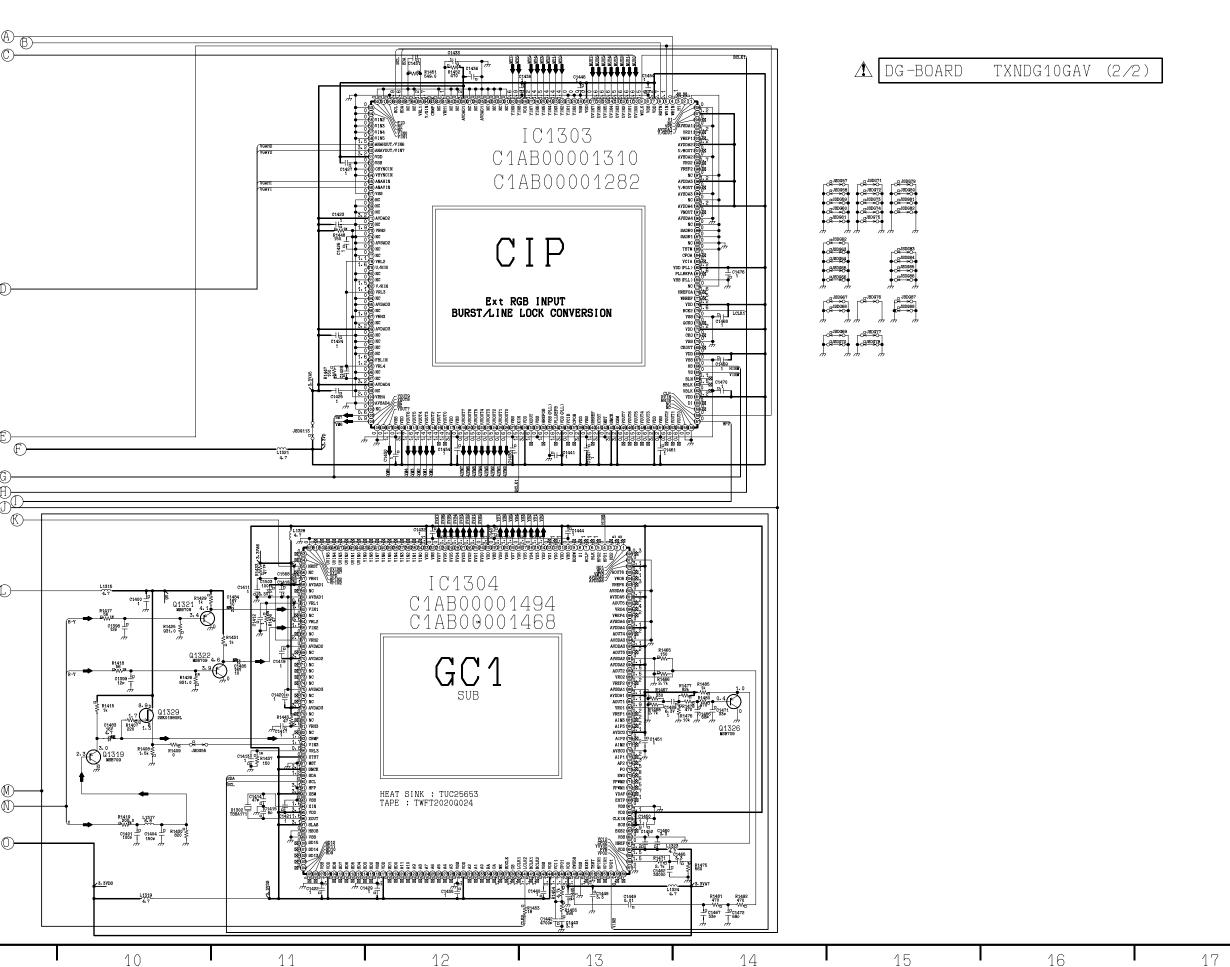


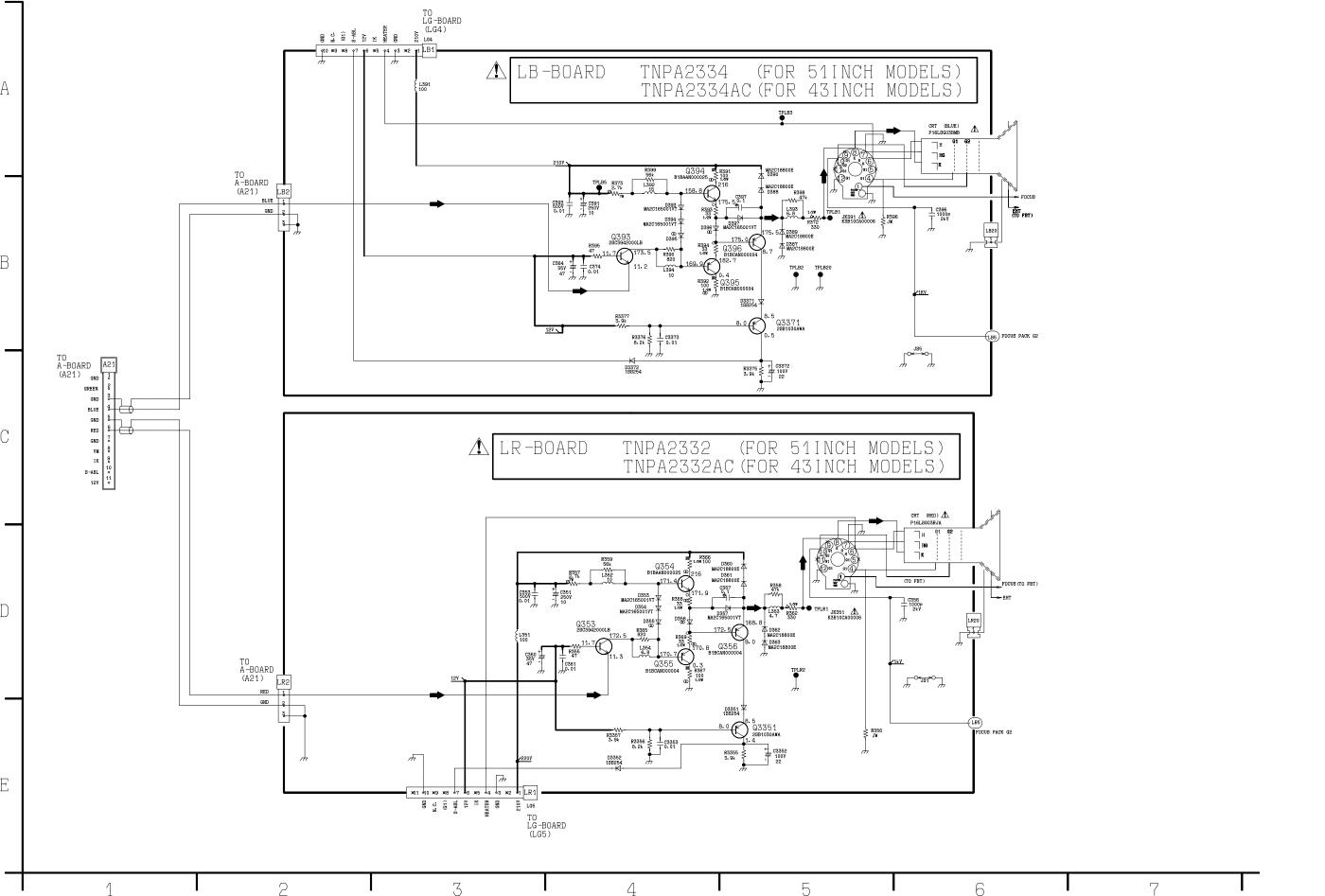


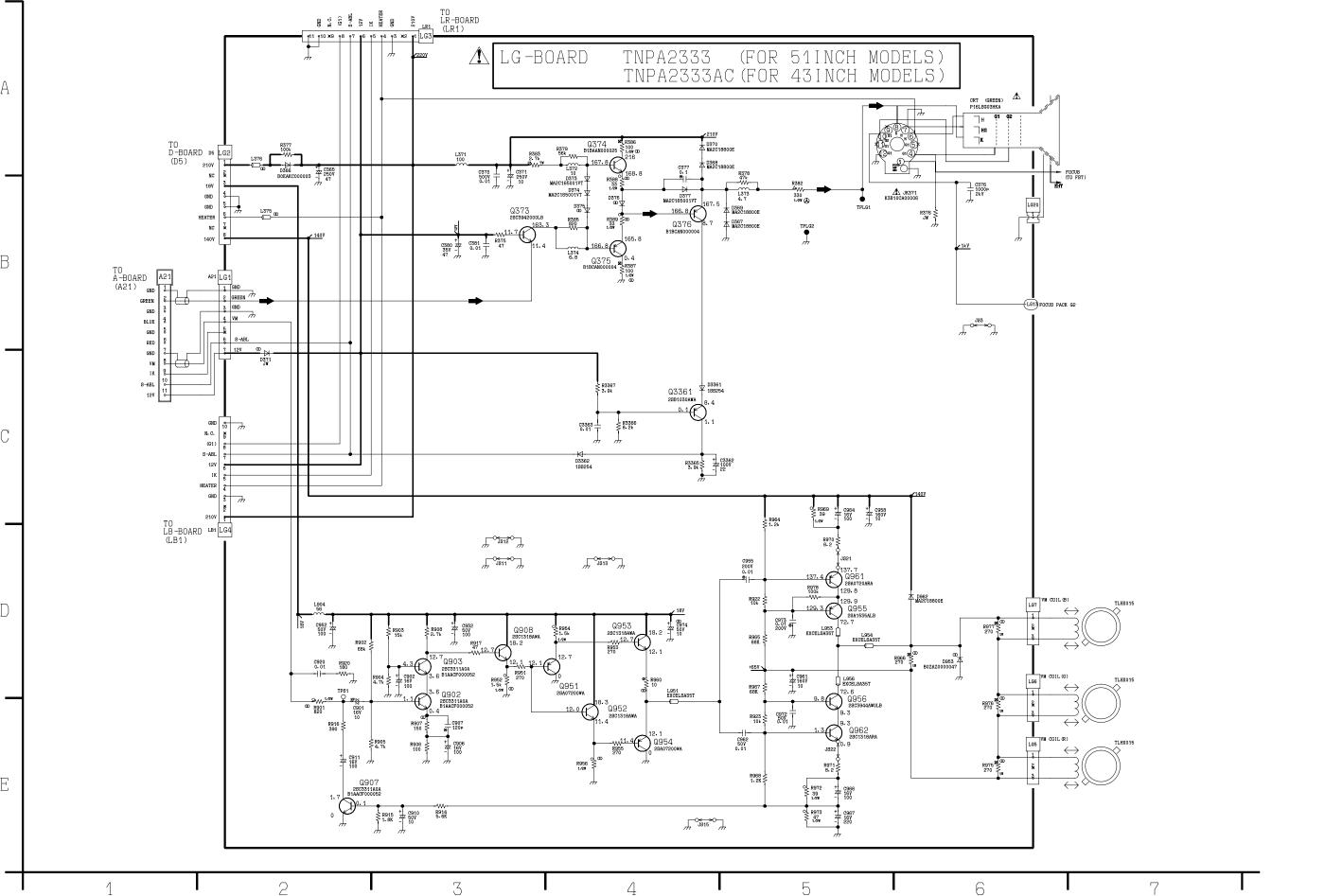


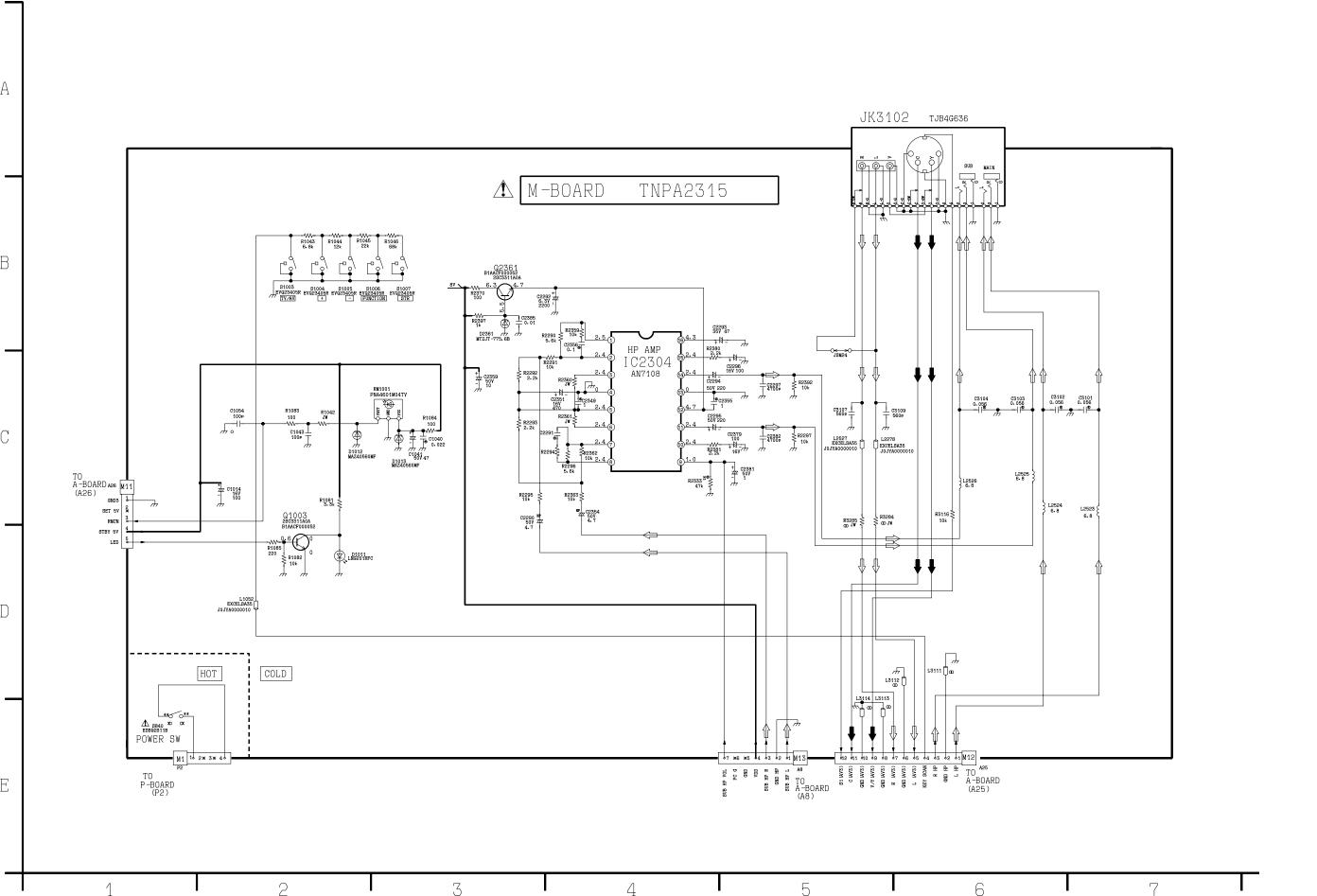








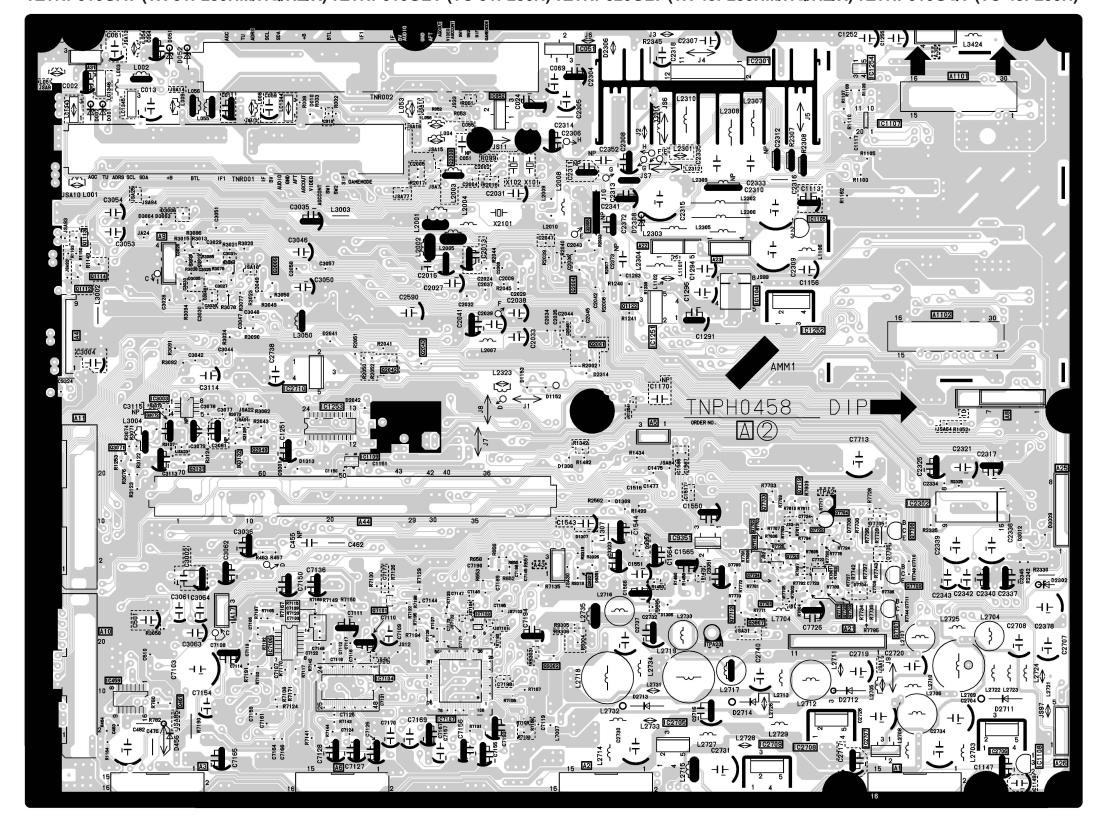




# A-BOARD (COMPONENT SIDE) TZTNP010GAV (TX-51P250HM/HQ/HZ/X) TZTNP010GEV (TC-51P250H) TZTNP020GLV (TX-43P250HM/HQ/HZ/X) TZTNP010GQV (TC-43P250H)

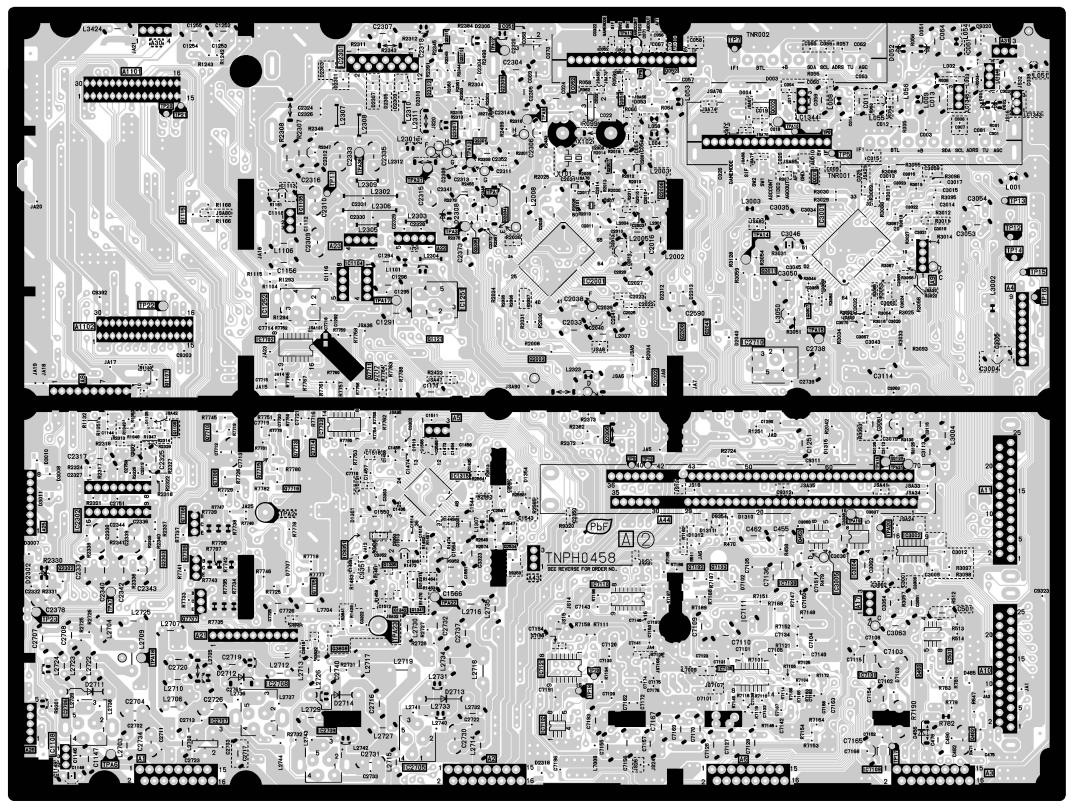
6

5



G

A-BOARD (FOIL SIDE)
TZTNP010GAV (TX-51P250HM/HQ/HZ/X) TZTNP010GEV (TC-51P250H) TZTNP020GLV (TX-43P250HM/HQ/HZ/X) TZTNP010GQV (TC-43P250H)



D

G

Н

В

Α

С